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Landsat-D Worldwide Reference System (WRS) Users Guide

June 30, 1981

**National Aeronautics and Space Administration
Goddard Space Flight Center
Greenbelt, MD 20771**

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LANDSAT-0
WORLDWIDE REFERENCE SYSTEM (WRS)
USERS GUIDE

JUNE 1981



1.0 INTRODUCTION

1.1 SCOPE

The scope of this document is a functional description of the new Landsat-D Worldwide Reference System (WRS) with an overview of the main orbital parameters and instrument coverages.

1.2 PURPOSE

The purpose of this document is to provide the Landsat-D data user with the primary information he requires to understand the Landsat-D orbital characteristics, to effectively use the Worldwide Reference System (WRS) indexing scheme, and to request specific geographic coverage on the desired observation dates.


2.0 HISTORICAL BACKGROUND

2.1 LANDSATS 1, 2, 3

The Landsat Program, first known as the Earth Resource Technology Satellite (ERTS) Program, is a development of the National Aeronautics and Space Administration (NASA) principally through its Earth Resource Survey Program, and in association with other Federal agencies. The early activities of these combined groups led to the concept of dedicated Earth-orbiting satellites, the defining of spectral and spatial requirements for their instruments, and the fostering of research to determine the best means of extracting and using information from the data. The first satellite, ERTS 1, was launched on July 23, 1972. The second satellite was launched on January 22, 1975. Concurrently the name of the satellite and program was changed to emphasize its prime area of interest: the resources of the Earth's land masses. The second satellite was called Landsat 2, and the first was renamed Landsat 1. Landsat 3 was launched on March 5, 1978. Landsat 2 is now operating in the real-time MSS mode only, and Landsat 3 is operating in the panchromatic RBV mode only with one operational on-board video tape recorder for limited non-real time coverage.

The parameters of Landsats 1, 2, and 3 orbits are given in Table 2.1 and ground tracks for two typical consecutive daily orbits are shown in Figure 2.1. The Landsats 1, 2, and 3 orbital parameters cause each consecutive daily track to be shifted, at the equator, to the West 25.8 degrees of longitude, corresponding to 2872 km. Each succeeding day of Landsats 1, 2, and 3

TABLE 21
LANDSATS 1, 2 and 3 ORBITAL PARAMETERS

ORBITAL PARAMETER	SATELLITE		
	1	2	3
Semi-major Axis (km)	7285.438	7285.989	7285.776
Inclination (deg)	99.906	99.210	99.117
Period (min.)	103.143	103.155	103.150
Time of Descending Node Equatorial Crossing (local time)	8:50 AM	9:08 AM	9:31 AM
Coverage Cycle Duration	 18 Days (251 revs)		
Distance Between Adjacent Ground Tracks at Equator. (km)	159.38		

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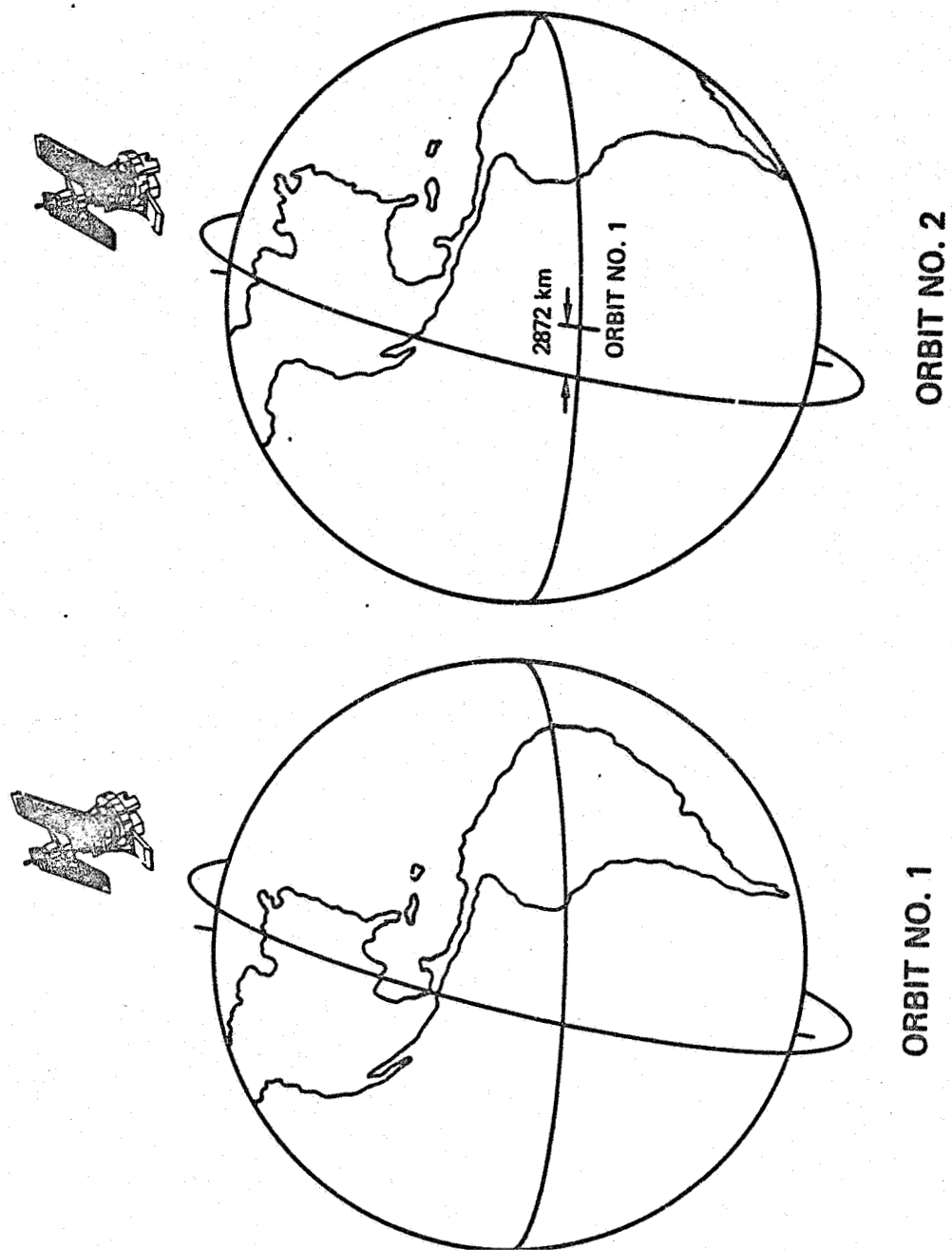


FIGURE 2.1. LANDSATS 1, 2, AND 3 TYPICAL DAILY GROUND TRACKS

coverage overlaps the coverage of the preceeding day as shown in Figure 2.2 with this pattern continuing until all the area between N and orbit N + 1 is covered. This constitutes one complete coverage cycle, consisting of 251 orbits, taking exactly 18 days, and providing complete global coverage between 82° N and 82° S latitude. The consecutive-day sidelap results in a minimum of 14 percent at the equator to nearly 85-percent at extreme latitudes as given in Table 2.2. A combination of data processing and orbital adjustment keep the error in the individual framed image centers of any geographical area on Earth within 37 km in the across-track direction and 30 km in the along-track direction (± 18.5 km and ± 15 km from nominal, respectively).

2.2 WORLDWIDE REFERENCE SYSTEM (WRS)

The Worldwide Reference System (WRS) is a global notation system for Landsat data. It enables a user to inquire about satellite imagery over any portion of the world by specifying a nominal scene center designated by PATH and ROW number. The WRS has proven valuable for the cataloging, referencing, and day-to-day use of imagery transmitted from the Landsat sensors.

The Landsats 1, 2, and 3 WRS notation assigns sequential path numbers from east to west to 251 nominal satellite orbital tracks, starting with number 001 for the first track which crosses the equator at 65.48 degrees west longitude. A specific orbital track can vary due to drift and other factors; thus a path line is only approximate. The orbit is adjusted periodically, after a specified amount of drift has occurred, to bring the satellite back to an orbit that is nearly coincident with the initial orbit.

Row refers to the latitudinal center line of a frame of imagery. As the satellite moves along its path, the observatory instruments are continuously scanning the terrain below. The instrument signals are transmitted to Earth and correlated with telemetry ephemeris data to form individual framed images. During this process the continuous data are segmented into individual frames of data known as "scenes". Landsats 1, 2, and 3 scene centers are chosen at approximately 25-second increments of spacecraft time in either direction from the equator with each scene equal to

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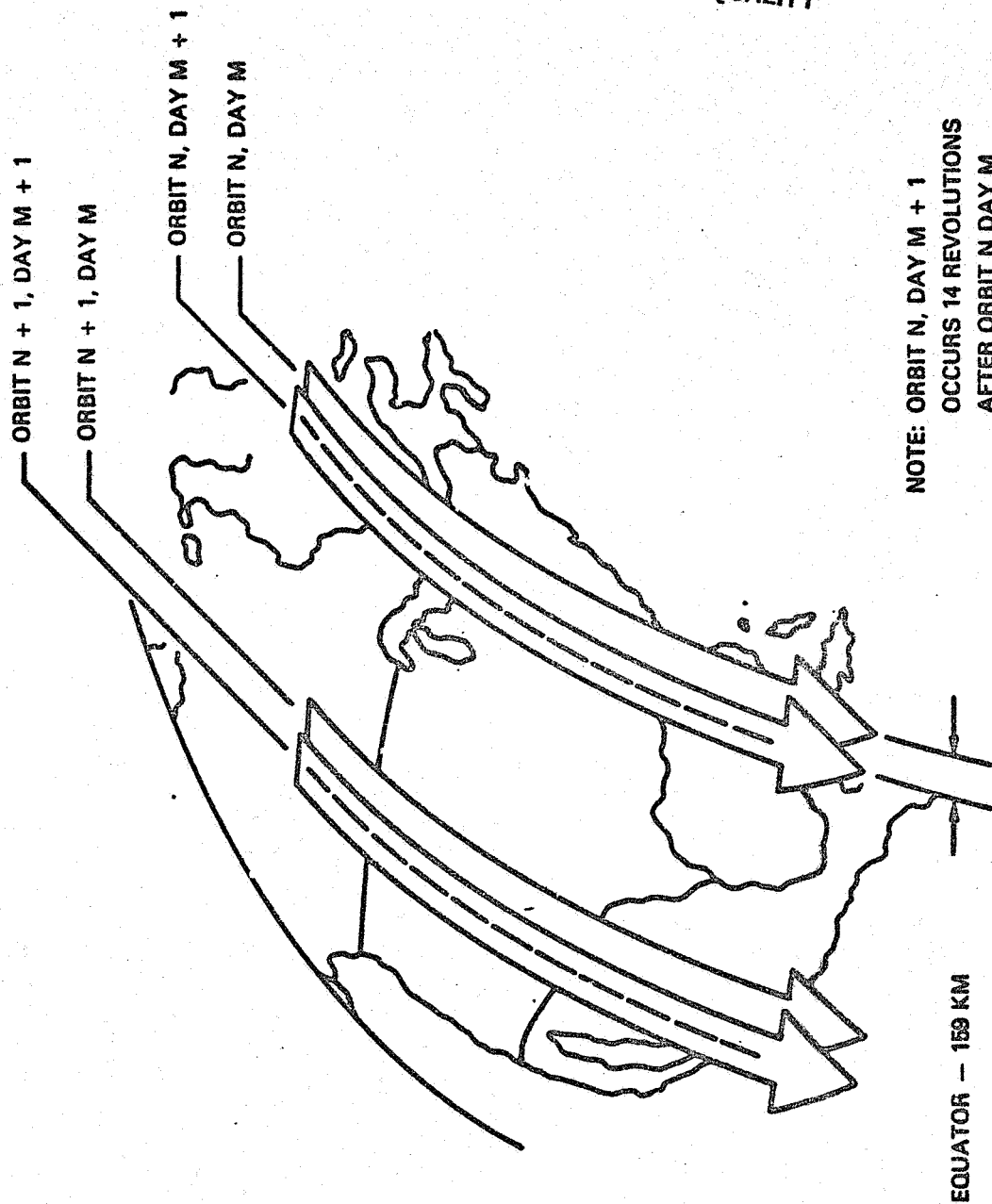


FIGURE 2.2. LANDSATS 1, 2, AND 3 CONSECUTIVE DAY GROUND COVERAGE PATTERN

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TABLE 2.2
SIDELAP OF ADJACENT LANDSATS 1, 2, and 3 COVERAGE SWATHS

Latitude (deg)	Image Sidelap (%)
0	14.0
10	15.4
20	19.1
30	25.6
40	34.1
50	44.8
60	57.0
70	70.6
80	85.0

approximately 163 km (101 statute mi-) on the **Earth's** surface plus about 10-percent in-track overlap (5-percent for Landsat-3) added by **the** ground processor. A total **of 119** Landsats **1, 2, and 3** daylight **scenes** are presently possible along **one** descending (~~from~~ north to south) satellite **path**. A **complete** orbit of **6,196** seconds, when divided by 25 seconds, **yields 247.84** intervals; **248** scenes *per* complete orbit (descending and ascending) **was** selected as the standard,

As the framing is **uniform** for each orbit, the **adjacent** east-west scenes will have scene center locations at the same nominal latitude. A **notation** of **Row** numbers can therefore be applied to identify all scenes occurring **at** the same latitude: **Row 060** corresponds to lat **0°** (the equator). **Row 059** is **immediately** north of this, and the progression **continues** to lat **80° 01'12"N**, which is **Row 001**. **Row 119** is at lat **80° 01'12"S**.

The **combination** of a Path number and a Row number **thus** uniquely identifies a nominal scene center. The Path number is always given first, followed by the **Row number**: the notation **127-043**, for example, **means** Path number 127 and Row number 043.

3.0 LANDSAT-D OVERVIEW

3.1 GENERAL

Landsat-D is a continuation of the very successful Landsat program with a scheduled launch in the third quarter of 1982. The satellite observatory carries two remote sensor systems plus supportive power supply, attitude-control and orbit-adjust subsystems, transmitters For data relay to the ground receiving stations, and receivers for commands from the ground stations.

The two imaging systems are a multispectral scanner (MSS) similar to that carried by Landsats 1, 2, and 3, and a thematic mapper (TM) providing greater spectral and spatial resolution than previously available in the Landsat series.

3.2 ORBIT

Landsat-D provides Earth coverage similar to that provided by Landsat 1, 2, and 3. However, the lower altitude results in a different swathing pattern (to be covered in greater detail later in Section 4.0). The satellite operates in a repetitive, circular, Sun-synchronous, near-polar orbit at a nominal altitude of 705.3 km (438.4 mi.) measured at the equator. The descending orbital node time is 9:45 am \pm 15 minutes at the equator with an orbital period of 98.9 minutes, completing 14 9/16 orbits per day and viewing the entire Earth every 16 days.

The parameters of the Landsat-D orbit are given in Table 3.1. Each consecutive daily track is spaced 2752 km (24.7°) west of the previous orbit at the equator, as shown in Figure 3-1, with each succeeding day's track shifted, at the equator, to the west 10.8 degrees of longitude, corresponding to 1204 km.

3.3 INSTRUMENT COVERAGE

The MSS and TM sensors are aligned to scan the same geographical area, and the optics are designed to provide an across-track coverage (i.e., swath width) of approximately 185 km for both instruments.

Coverage side-lap of adjacent orbits for both the Landsat-D MSS and TM is a minimum of 7.6 percent at the equator to nearly 45 percent at extreme latitudes as given in Table 3.2. Successive orbits and framing operations are controlled to assure no more than 8 km variation in the across-track direction (± 4 km from nominal).

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TABLE 3.1
LANDSAT-D ORBITAL PARAMETERS

ORBITAL PARAMETER	VALUE
Nominal Altitude (km)	705.3
Semi-major Axis (km)	7083.465
Inclination (deg.)	98.22
Period (min.)	98.9
Time of Descending Node Equatorial Crossing (local time)	9:45 AM
Coverage Cycle Duration	16 days (233 revs)
Distance Between Adjacent Ground Tracks at Equator (km)	172

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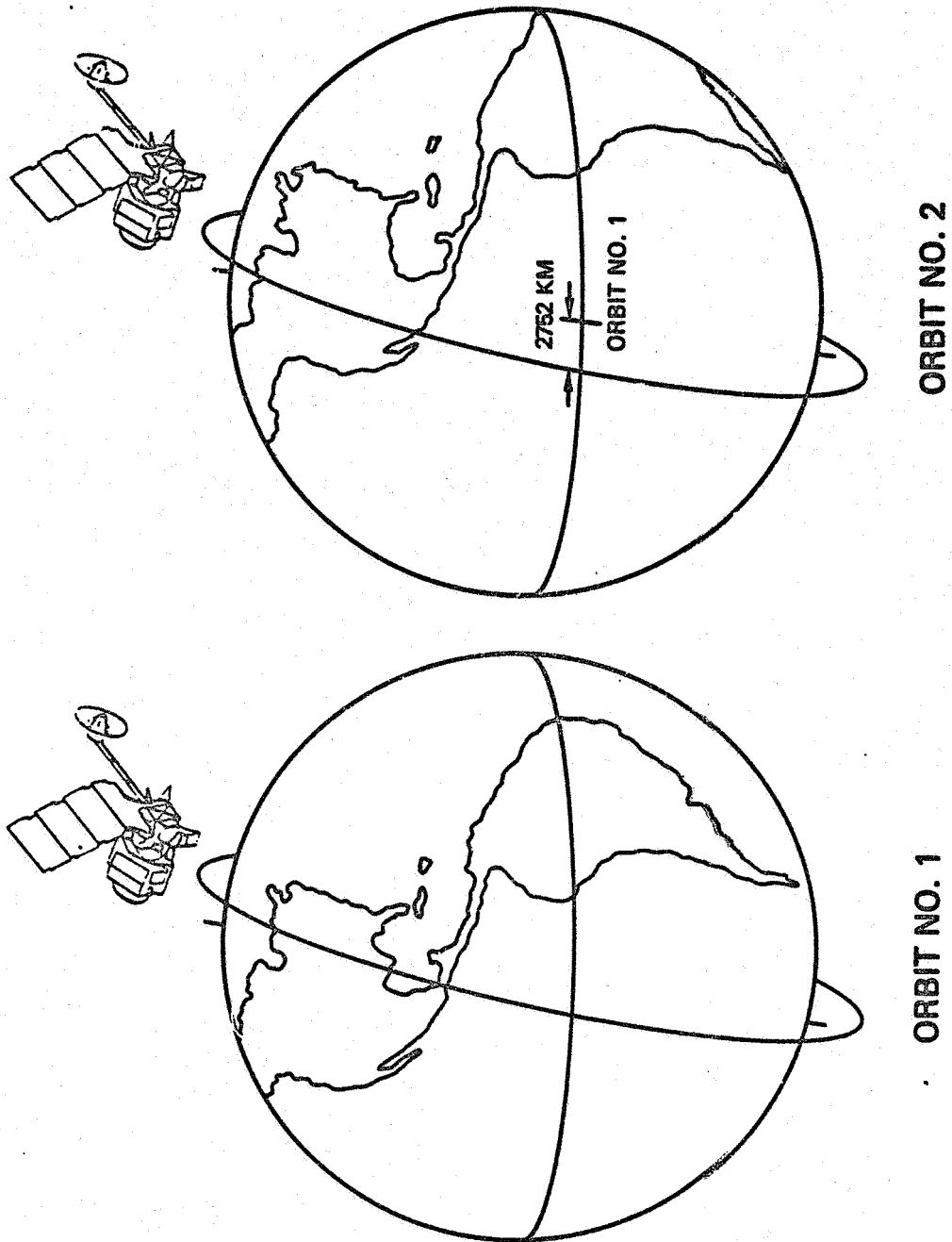


FIGURE 3.1. LANDSAT-D TYPICAL DAILY GROUND TRACKS

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TABLE 3.2
SIDELAP OF ADJACENT LANDSAT-D COVERAGE SWATHS

LATITUDE (DEG.)	IMAGE SIDELAP (%)
0	7.6
10	8.4
20	10.4
30	13.9
40	18.5
50	24.3
60	30.9
70	38.3
80	46.1

4.8 LANDSAT-D WORLDWIDE REFERENCE SYSTEM (WRS)

The Landsat-D Worldwide Reference System (WRS) is an extension of the global Worldwide Reference System for Landsats 1, 2, and 3 and utilizes an orderly Path/Row gridding system in a similar fashion. Reference Section 2.2 herein for a general WRS overview. There are, however, major differences in repeat cycles, coverage, swathing patterns, and Path/Row designators due to the large orbital differences of Landsat-D compared to Landsats 1, 2, and 3. This section will describe the Landsat-D WRS and the procedures for effectively using the WRS indexing scheme to order data acquisition and/or products providing the desired geographical coverage.

4.1 SWATHING PATTERN

The "swathing pattern" is a listing or pictorial illustration of the satellite ground tracks showing the order in which they occur on the Earth over the period of one full coverage cycle. Figures 4.1 and 4.2 illustrate the swathing pattern for Landsat-D with the staggered daily sequence shown for the complete 16-day Landsat-D coverage cycle in Figure 4.2.

On any given day M, a typical orbit N will produce a ground-track swath as shown in Figure 4.1 (i.e., orbit N, day M).

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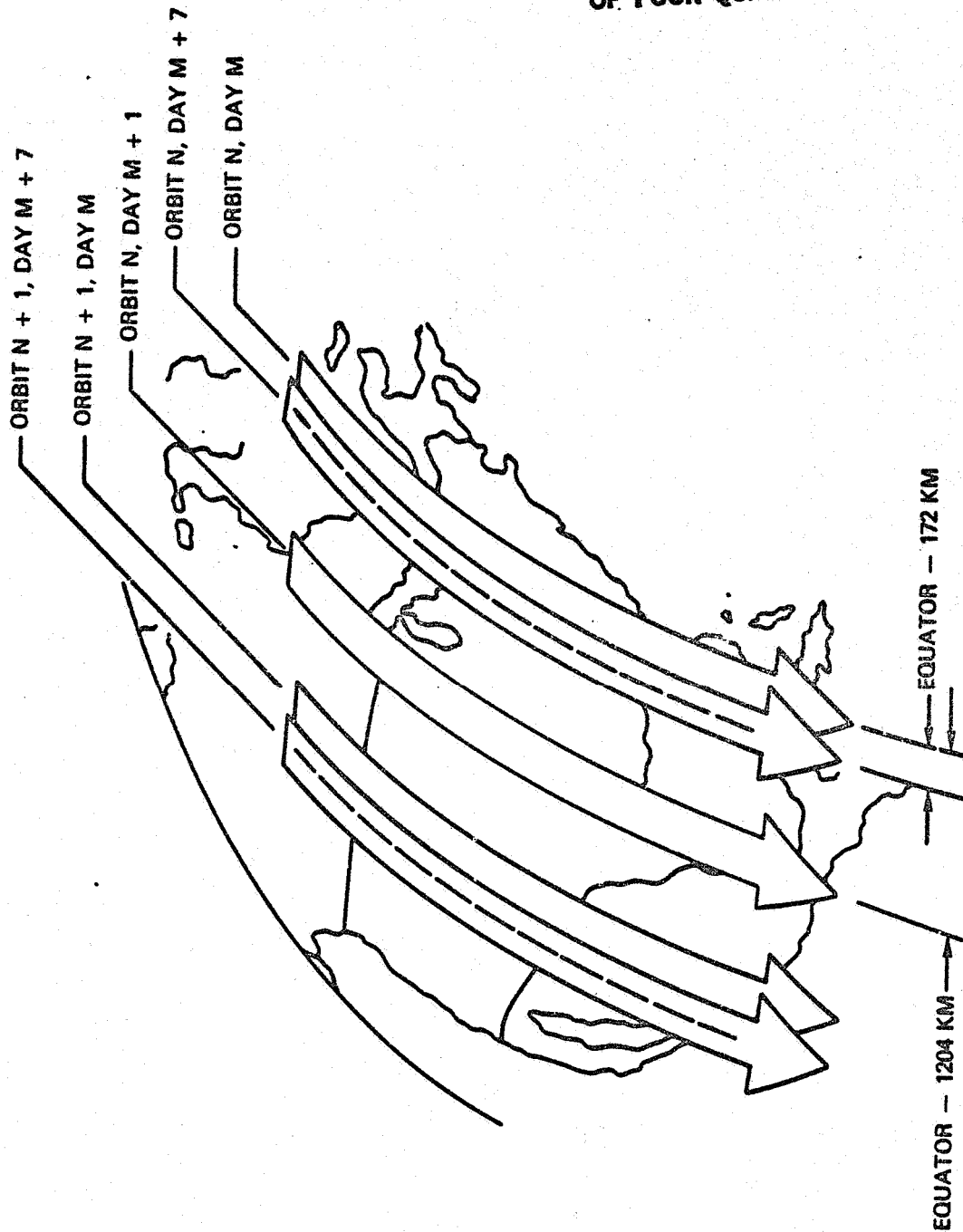
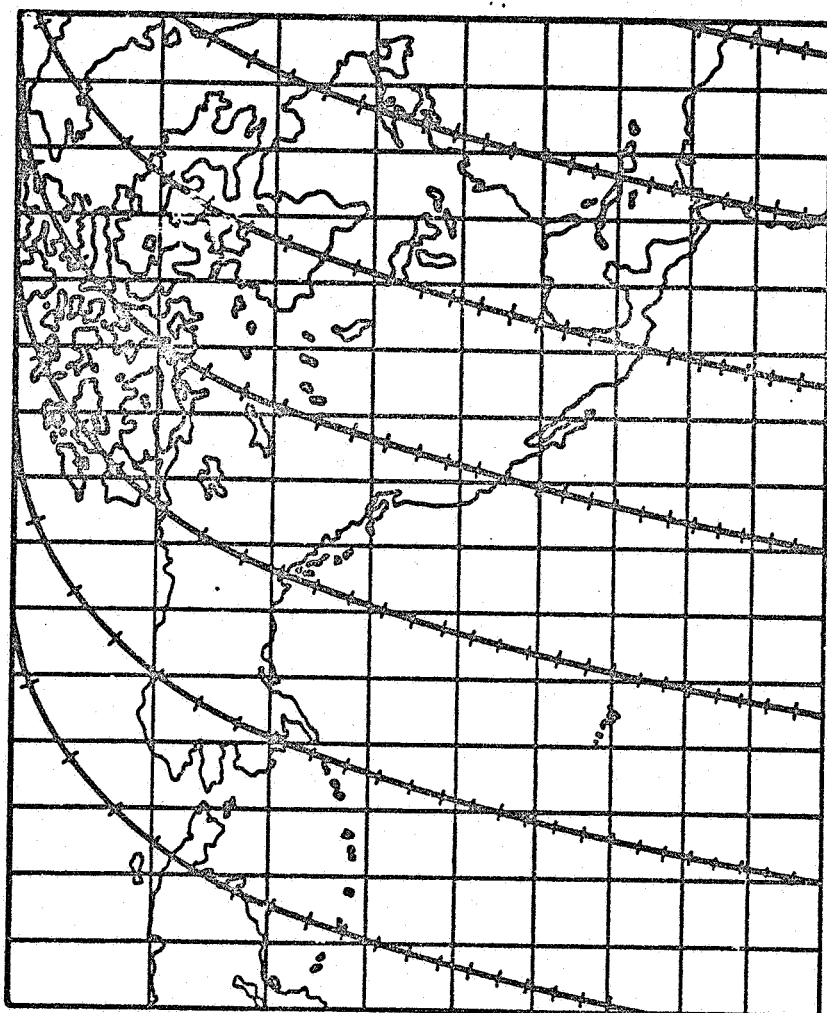


FIGURE 4.1. LANDSAT-D GROUND COVERAGE PATTERN

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1	10	3	12	5	14	7	16	9	2	11	4	13	6	15	8	1
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D Y

SWATHING PATTERN

FIGURE 4.2. LANDSAT-D SWATHING PATTERN

The **98.9** minute Landsat-D orbital period causes the next descending orbit (i.e., orbit N+1, day M) to produce a ground-track swath to the **West of orbit N** and **so on** around the Earth for succeeding orbits. As given in **Section 32** and **Figure 3.1**, the distance between orbit N and N+1 is **2752 km** at the equator.

On day M+1, the new ground tracks occur, geographically, approximately half way (**44%**) between the previous day's tracks as illustrated in **Figure 4.1** (i.e., orbit N, day M+1). The distance between orbit N on day M and orbit N on day M+1 is **1204 km** at the equator. Note that the second day's ground-track swaths do not overlap the previous day's coverage as was the case with Landsats 1, 2, and 3. Westerly sidelapping will occur, however, on the seventh day following any given orbital pass on Earth (i.e., day M+7) with the amount of sidelap dependent on geographical latitude as shown in **Table 2.2**. Though not shown in **Figure 4.1**, easterly sidelapping will occur on the ninth day following any given orbital pass on Earth (i.e., day M+9).

The staggered Landsat-D daily coverage sequence continues until the whole Earth has been covered as shown in **Figure 4.2**. If one assumes that the typical ground tracks shown in **Figure 4.2** occur on day 1, the rest of the area between each track will fill in over a 16-day period as given in the swathing table. For example, the next westerly swath will occur on day 8, the next on day 15, the next on day 6, and so forth until the cycle repeats after 16 days.

4.2 PATH/ROW DESCRIPTION

WRS is an indexing system for orbits (Paths) and frame centers (Rows) on each Path along with characteristic quantities assigned to each frame center with which the framed image data are identified. The Path/Row notation eliminates the necessity of using the more cumbersome latitude and longitude notations and provides a standard designator for every nominal scene center.

The Landsat-0 16-day ground coverage cycle is accomplished in 233 orbits. Thus, for Landsat-D, the WRS system is made up of 233 Paths numbered 001 to 233, east to west, with Path 001 crossing the equator at **64.95° west** longitude.

Row refers to the latitudinal center line of a frame of imagery above any given Path. As the satellite moves along its path from north to south, both Landsat-D sensor systems are scanning the terrain below. These data are transmitted to Earth, correlated with telemetry data, and recorded both on magnetic tape and film to form individual images. During this process the continuous data are segmented into individual frames of data known as "scenes." Landsat-D scenes are chosen at 23.92-second increments of spacecraft time in either direction calculated from the equator in order to create 248 Row intervals per complete orbit. Note that this is the same as the Landsats I, 2, and 3 WRS system. The Rows have been positioned in such a way that Row 60 coincides with the equator during the descending node, on the dayside part of the orbit, and Row 184 during the ascending node. Row one of each Path starts at 80° 47'N latitude and the numbering increases southward to a maximum latitude 81° 51'S (Row 122) and then turns northward, crosses the equator (Row 184), and continues to a maximum latitude of 81° 51'N (Row 246). Row 248 is located at latitude 81° 22'N whereupon another Path begins. The algorithms and methods of calculating specific quantities assigned to each Row of each Path for Landsat-D are given in detail in Appendix A. A listing of the specific latitude and longitude values for each Landsat-D nominal scene center is provided in Appendix B.

Table C.1 in Appendix C indicates which orbit Paths are flown on each of the 16 days in the Landsat-D coverage cycle. Table C.2 provides calendars for Landsat-D which relate the day of the month to the cycle day. Thus, to determine which orbits are flown on a given date, use Table C.2 for that date to obtain the cycle day; then use Table C.1 to find the orbital paths for that day. Ground coverage for that day's orbital paths at any point on Earth can be determined from Landsat-D WRS-indexed maps available from the USGS/EROS Data Center, Sioux Falls, SD 57198, telephone (605) 594-6151. Further, to determine when a particular geographic area is to be covered by Landsat-D, use the Landsat-D WRS-indexed maps to obtain the Path number for the desired coverage area. Find the corresponding cycle day in Table C.1, then use Table C.2 to determine the calendar date closest to the desired time of coverage.

For purposes of illustration, the following describes the Landsat-0 coverage of the conterminous 48 United States for one typical 16-day coverage cycle. Orbit N on the first day is assumed to be the most easterly U.S. coverage possible, i.e., over the NE coast of the State of Maine. Table 4.1 lists the actual Bath numbers and the number of coverage swaths per day. Note the general rule-of-thumb that every other day's coverage is two swaths to the east of any given ground track. That is, if Path P occurs on day M, then Path P-2 will occur on day M+2.

TABLE 4.1
EXAMPLE U.S. * COVERAGE

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DAY	PATH #			# OF COVERAGE SWATHS
	1st	2nd	3rd	
1	10	26	42	3
2	17	33	--	2
3	24	40	--	2
4	E5	31	47	3
5	22	38	--	2
6	13	29	45	3
7	20	36	--	2
8	11	27	43	3
9	18	24	--	2
10	25	41	--	2
11	16	32	48	3
12	23	39	--	2
13	14	30	46	3
14	21	37	--	2
15	12	28	44	3
16	19	35	--	2

*(48 conterminous states only)

5.0 REFERENCE DOCUMENTS

Reference the following applicable documents for more detailed information regarding Landsat-D:

- Landsat-D to Ground Station Interface Description, Revision 2, GSFC 435-D-400, Goddard Space Flight Center, May 1981 or the latest approved issue.
- Engineering Code for Generation of WRS Related Data Bank, Revision A, PIR 1T81-LSD-GS-204, General Electric Space Division, April 3, 1981, or the latest approved issue.

APPENDIX A

**LANDSAT-D
WORLDWIDE REFERENCE SYSTEM (WRS)
ALGORITHMS**

A. 1 WRS SCENE-CENTER LONGITUDE

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Assuming the geometry in Figure A.1, an inertial system can be defined where the x-axis is the intersection of the orbital and equatorial planes, the z-axis originating from Earth center and pointing to the north pole, and the y-axis completing the orthogonal system.

Let γ be the angular travel of the S/C from the ascending node:

- i - the supplement of the orbit inclination
- θ - the angular distance from the ascending node (a.n.)
- ϕ_c - the geocentric latitude.

Then the following relations can be derived

$$\cos \gamma = \cos \theta \cdot \cos \phi_c \quad (1)$$

$$\sin \phi_c = \sin \gamma \cdot \sin i \quad (2)$$

from which ϕ_c and θ can be determined; θ is the longitude from the ascending node (inertial longitude). For an Earth fixed system θ has to be corrected for the reference of the ascending node and the effect of Earth's rotation.

Let

- θ_0 - reference longitude of the a.n.
- ω_e - Earth's mean sidereal rotation rate
- ω - angular S/C velocity.

Then, θ' , the longitude of the WRS scene center on reference path is given by the relation

$$\theta' = \theta_0 - \tan^{-1} (\cos i \cdot \tan \gamma) - \frac{\omega}{\omega_e} \cdot \gamma \quad (3)$$

The longitude is rounded in the online processing after rotation of the reference path to the path in question.

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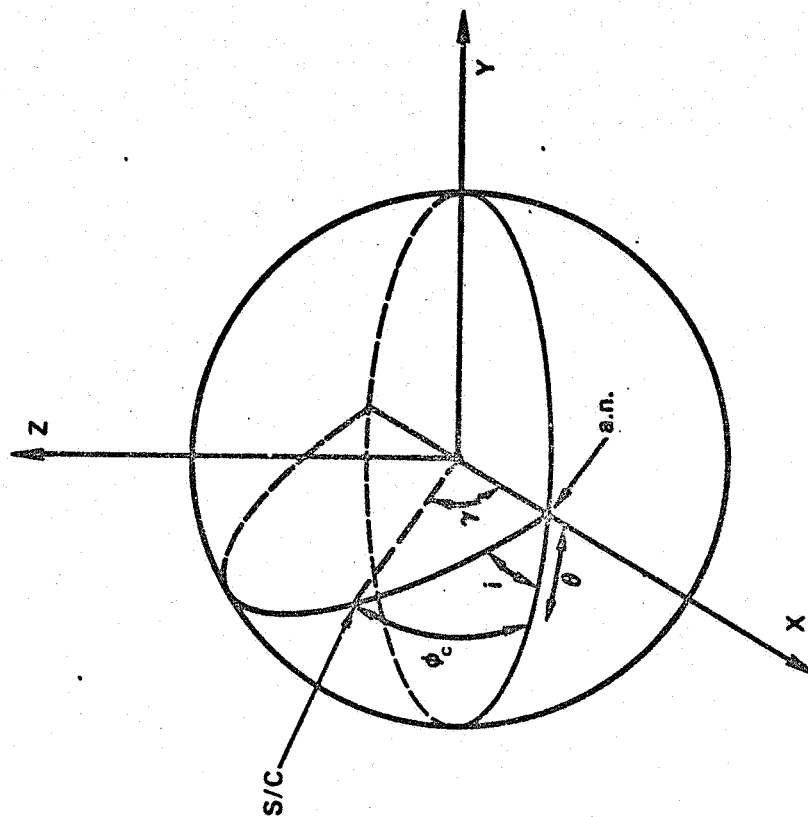


FIGURE A.1. INERTIAL COORDINATE SYSTEM

A.2 WRS SCENE-CENTER LATITUDE

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path) is defined to be

radius, R_e , at geocentric

$$2 \sin^2 d)^{\frac{1}{2}}$$

The procedure is as follows:

$$\theta'_c = \tan^{-1} \left(\tan(\theta_D) / (a/b)^2 \right) \quad (6)$$

$$R_e(\theta'_c) = a \cdot b / \sqrt{b^2 \cos^2 \theta'_c + a^2 \sin^2 \theta'_c} \quad (7)$$

A.4 SKEW ANGLE

Because of the Earth's rotation against the spacecraft's absolute velocity, the images of the S/C data show a skewness. The skewness will be calculated at scene center. It involves finding the angle, β , between the relative ground based velocity, \vec{V}_G , and \vec{V}_S , the inertial velocity vector projected onto the ground and expressed in ECEF coordinates.

Assuming the notation as before, and let V_o be the magnitude of the S/C velocity and R_o the orbital radius, then the position vector, \vec{r} , on the Earth's surface is

$$\vec{r} = R_e \begin{bmatrix} \cos \vartheta'_c \cos \theta \\ \cos \vartheta'_c \sin \theta \\ \sin \vartheta'_c \end{bmatrix} \quad (8)$$

The velocity vector (inertial) at (ϑ'_c, θ) is approximately

$$\vec{v}_s = \frac{V_o \cdot R_e}{R_o} \begin{bmatrix} -\sin i \sin \vartheta'_c - \cos i \cos \vartheta'_c \sin \theta \\ \cos i \cos \vartheta'_c \cos \theta \\ \sin i \cos \vartheta'_c \cos \theta \end{bmatrix} \quad (9)$$

Let \vec{w}_e be Earth rotation vector. Then, the relative ground based velocity is given by the relation

$$\vec{v}_G = \vec{v}_s - \vec{w}_e \times \vec{r} \quad (10)$$

$$= \vec{v}_s - \begin{bmatrix} -w_e \cdot r \cdot \cos \vartheta'_c \cdot \sin \theta \\ w_e \cdot r \cdot \cos \vartheta'_c \cdot \cos \theta \\ 0 \end{bmatrix} \quad (11)$$

$$\beta = \text{Arccos} \left(\frac{\vec{v}_G \cdot \vec{v}_s}{|\vec{v}_G| \cdot |\vec{v}_s|} \right) \quad (12)$$

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APPENDIX B

**LANDSAT-D
WORLDWIDE REFERENCE SYSTEM (WRS)
NOMINAL SCENE CENTER LISTING**

REPI : 500
SUBSYSTEM : 555

NAT-...L AERONAUTICS AND SPACE ADMINISTRATION
GUARDIAN SPACE FLIGHT CENTER
LANDSAT MISSION MANAGEMENT FACILITY

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025	026	027	028	029	030	031	032	033	034	035	036	037	038	039	040	041	042	043	044	045	046	047	048																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
001	80:47	3:11	1:38	0:06	1:27	3:00	4:33	6:05	7:37	9:09	10:41	12:13	13:45	15:17	16:49	18:21	19:53	21:25	22:57	24:29	26:01	27:33	29:05	30:37	32:09	33:41	35:13	36:45	38:17	39:49	41:21	42:53	44:25	45:57	47:29	49:01	50:33	52:05	53:37	55:09	56:41	58:13	59:45	61:17	62:49	64:21	65:53	67:25	68:57	70:29	72:01	73:33	75:05	76:37	78:09	79:41	81:13	82:45	84:17	85:49	87:21	88:53	90:25	91:57	93:29	95:01	96:33	98:05	99:37	101:09	102:41	104:13	105:45	107:17	108:49	110:21	111:53	113:25	114:57	116:29	118:01	119:33	121:05	122:37	124:09	125:41	127:13	128:45	130:17	131:49	133:21	134:53	136:25	137:57	139:29	141:01	142:33	144:05	145:37	147:09	148:41	150:13	151:45	153:17	154:49	156:21	157:53	159:25	160:57	162:29	164:01	165:33	167:05	168:37	170:09	171:41	173:13	174:45	176:17	177:49	179:21	180:53	182:25	183:57	185:29	187:01	188:33	190:05	191:37	193:09	194:41	196:13	197:45	199:17	200:49	202:21	203:53	205:25	206:57	208:29	210:01	211:33	213:05	214:37	216:09	217:41	219:13	220:45	222:17	223:49	225:21	226:53	228:25	229:57	231:29	233:01	234:33	236:05	237:37	239:09	240:41	242:13	243:45	245:17	246:49	248:21	249:53	251:25	252:57	254:29	256:01	257:33	259:05	260:37	262:09	263:41	265:13	266:45	268:17	269:49	271:21	272:53	274:25	275:57	277:29	279:01	280:33	282:05	283:37	285:09	286:41	288:13	289:45	291:17	292:49	294:21	295:53	297:25	298:57	300:29	302:01	303:33	305:05	306:37	308:09	309:41	311:13	312:45	314:17	315:49	317:21	318:53	320:25	321:57	323:29	325:01	326:33	328:05	329:37	331:09	332:41	334:13	335:45	337:17	338:49	340:21	341:53	343:25	344:57	346:29	348:01	349:33	351:05	352:37	354:09	355:41	357:13	358:45	360:17	361:49	363:21	364:53	366:25	367:57	369:29	371:01	372:33	374:05	375:37	377:09	378:41	380:13	381:45	383:17	384:49	386:21	387:53	389:25	390:57	392:29	394:01	395:33	397:05	398:37	400:09	401:41	403:13	404:45	406:17	407:49	409:21	410:53	412:25	413:57	415:29	417:01	418:33	420:05	421:37	423:09	424:41	426:13	427:45	429:17	430:49	432:21	433:53	435:25	436:57	438:29	440:01	441:33	443:05	444:37	446:09	447:41	449:13	450:45	452:17	453:49	455:21	456:53	458:25	459:57	461:29	463:01	464:33	466:05	467:37	469:09	470:41	472:13	473:45	475:17	476:49	478:21	479:53	481:25	482:57	484:29	486:01	487:33	489:05	490:37	492:09	493:41	495:13	496:45	498:17	499:49	501:21	502:53	504:25	505:57	507:29	509:01	510:33	512:05	513:37	515:09	516:41	518:13	519:45	521:17	522:49	524:21	525:53	527:25	528:57	530:29	532:01	533:33	535:05	536:37	538:09	539:41	541:13	542:45	544:17	545:49	547:21	548:53	550:25	551:57	553:29	555:01	556:33	558:05	559:37	561:09	562:41	564:13	565:45	567:17	568:49	570:21	571:53	573:25	574:57	576:29	578:01	579:33	581:05	582:37	584:09	585:41	587:13	588:45	590:17	591:49	593:21	594:53	596:25	597:57	599:29	601:01	602:33	604:05	605:37	607:09	608:41	610:13	611:45	613:17	614:49	616:21	617:53	619:25	620:57	622:29	624:01	625:33	627:05	628:37	630:09	631:41	633:13	634:45	636:17	637:49	639:21	640:53	642:25	643:57	645:29	647:01	648:33	650:05	651:37	653:09	654:41	656:13	657:45	659:17	660:49	662:21	663:53	665:25	666:57	668:29	669:61	671:33	673:05	674:37	676:09	677:41	679:13	680:45	682:17	683:49	685:21	686:53	688:25	689:57	691:29	693:01	694:33	696:05	697:37	699:09	700:41	702:13	703:45	705:17	706:49	708:21	709:53	711:25	712:57	714:29	716:01	717:33	719:05	720:37	722:09	723:41	725:13	726:45	728:17	729:49	731:21	732:53	734:25	735:57	737:29	739:01	740:33	742:05	743:37	745:09	746:41	748:13	749:45	751:17	752:49	754:21	755:53	757:25	758:57	760:29	762:01	763:33	765:05	766:37	768:09	769:41	771:13	772:45	774:17	775:49	777:21	778:53	780:25	781:57	783:29	785:01	786:33	788:05	789:37	791:09	792:41	794:13	795:45	797:17	798:49	800:21	801:53	803:25	804:57	806:29	808:01	809:33	811:05	812:37	814:09	815:41	817:13	818:45	820:17	821:49	823:21	824:53	826:25	827:57	829:29	831:01	832:33	834:05	835:37	837:09	838:41	840:13	841:45	843:17	844:49	846:21	847:53	849:25	850:57	852:29	854:01	855:33	857:05	858:37	860:09	861:41	863:13	864:45	866:17	867:49	869:21	870:53	872:25	873:57	875:29	877:01	878:33	880:05	881:37	883:09	884:41	886:13	887:45	889:17	890:49	892:21	893:53	895:25	896:57	898:29	900:01	901:33	903:05	904:37	906:09	907:41	909:13	910:45	912:17	913:49	915:21	916:53	918:25	919:57	921:29	923:01	924:33	926:05	927:37	929:09	930:41	932:13	933:45	935:17	936:49	938:21	939:53	941:25	942:57	944:29	946:01	947:33	949:05	950:37	952:09	953:41	955:13	956:45	958:17	959:49	961:21	962:53	964:25	965:57	967:29	969:01	970:33	972:05	973:37	975:09	976:41	978:13	979:45	981:17	982:49	984:21	985:53	987:25	988:57	990:29	991:61	993:33	994:65	996:37	997:69	999:41	1001:13	1002:45	1004:17	1005:49	1007:21	1008:53	1010:25	1011:57	1013:29	1015:01	1016:33	1018:05	1019:37	1021:09	1022:41	1024:13	1025:45	1027:17	1028:49	1030:21	1031:53	1033:25	1034:57	1036:29	1038:01	1039:33	1041:05	1042:37	1044:09	1045:41	1047:13	1048:45	1050:17	1051:49	1053:21	1054:53	1056:25	1057:57	1059:29	1061:01	1062:33	1064:05	1065:37	1067:09	1068:41	1070:13	1071:45	1073:17	1074:49	1076:21	1077:53	1079:25	1080:57	1082:29	1084:01	1085:33	1087:05	1088:37	1090:09	1091:41	10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REPORT : RF1300
SUBSYSTEM : RSS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GUARDIAN SPACE FLIGHT CENTER
LANDSAT MISSION MANAGEMENT FACILITY

PAGE :
DATE : 03-AUG-81
TIME : 1711C

PATH/ROM TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROM
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050	14:27	61:29	63:02	64:35	66:07	67:40	69:13	70:46	72:19	73:52	75:25	76:58	14:27	050
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056	5:47	63:22	64:55	66:28	68:00	69:33	71:06	72:39	74:12	75:45	77:18	78:51	5:47	056
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097	-53:06	79:17	80:50	82:22	83:55	85:28	87:01	88:34	89:67	91:40	93:13	94:46	-53:06	097

ORIGINAL PAGE IS
OF POOR QUALITY

REPORT 2 HF1300
SUBSYSTEM : RSS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
LANUSAT MISSION MANAGEMENT FACILITY

PAGE : 3
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TIME : 17:10

PATH/ROM TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	006	007	LATITUDE	ROW
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231	66157	78142		77110		75137		74104		72131		70159	66157	231
232	68117	77112		75139		74106		72133		71101		69128	68117	232
233	69137	75130		73158		72125		70152		69120		67147	69137	233
234	70155	73137		72104		70131		68158		67126		65153	70155	234
235	72113	71128		69155		68122		66150		65117		63144	72113	235
236	73129	69100		67128		65155		64122		63150		61117	73129	236
237	74143	66111		64138		63103		61133		60100		58127	74143	237
238	75154	62154		61121		59148		58116		56143		55110	75154	238
239	77103	59103		57130		55157		54125		52152		51119	77103	239
240	78108	54130		52157		51125		49149		48119		46147	78108	240
241	79108	49107		47135		46102		44139		43156		41124	79108	241
242	80102	42145		41112		39139		38107		36134		35101	80102	242
243	80147	35115		33143		32112		30137		29105		27132	80147	243
244	81122	26138		25105		23133		22100		20127		18154	81122	244

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
245	81:44	17:02	15:29	13:57	12:24	10:51	9:18	7:46				006	81:44	245
246	81:51	6:52	5:19	3:46	2:13	0:41	0:52	2:25				007	81:51	246
247	81:44	3:19	4:52	6:24	7:57	9:30	11:02	12:35				008	81:44	247
248	81:22	12:55	14:28	16:00	17:33	19:06	20:39	22:11				009	81:22	248

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PATH/ROW TO LATITUDE/LONGITUDE
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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
			008	009	010	011	012	013	014					
001	80:47	71:38	-	91:11	-	10:43	-	12:16	-	13:49	-	15:22	80:47	001
002	80:02	15:07	-	16:40	-	18:13	-	19:45	-	21:18	-	22:51	80:02	002
003	79:08	21:30	-	23:02	-	24:35	-	26:08	-	27:41	-	29:13	79:08	003
004	78:08	26:53	-	28:25	-	29:58	-	31:31	-	33:04	-	34:36	78:08	004
005	77:03	31:15	-	32:58	-	34:31	-	36:03	-	37:36	-	39:09	77:03	005
006	75:54	35:16	-	36:49	-	38:22	-	39:54	-	41:27	-	43:00	75:54	006
007	74:43	38:33	-	40:06	-	41:39	-	43:11	-	44:44	-	46:17	74:43	007
008	73:29	41:23	-	42:56	-	44:28	-	46:01	-	47:34	-	49:07	73:29	008
009	72:13	43:50	-	45:23	-	46:56	-	48:28	-	49:01	-	51:34	72:13	009
010	70:55	45:59	-	47:32	-	49:05	-	50:37	-	52:10	-	53:43	70:55	010
011	69:37	47:53	-	49:26	-	50:58	-	52:31	-	54:04	-	55:36	69:37	011
012	68:17	49:34	-	51:07	-	52:40	-	54:12	-	55:45	-	57:18	68:17	012
013	66:57	51:05	-	52:38	-	54:10	-	55:43	-	57:16	-	58:48	66:57	013
014	65:35	52:27	-	53:59	-	55:32	-	57:05	-	58:38	-	60:10	65:35	014
015	64:14	53:41	-	55:14	-	56:46	-	58:19	-	59:52	-	61:25	64:14	015
016	62:51	54:49	-	56:22	-	57:54	-	59:27	-	61:00	-	62:33	62:51	016
017	61:29	55:51	-	57:24	-	58:57	-	60:30	-	62:02	-	63:35	61:29	017
018	60:06	56:49	-	58:22	-	59:54	-	61:27	-	63:00	-	64:33	60:06	018
019	58:42	57:43	-	59:15	-	60:48	-	62:21	-	63:53	-	65:26	58:42	019
020	57:19	58:32	-	60:05	-	61:38	-	63:10	-	64:43	-	66:16	57:19	020
021	55:55	59:19	-	60:52	-	62:24	-	63:57	-	65:30	-	67:03	55:55	021
022	54:31	60:03	-	61:36	-	63:08	-	64:41	-	66:14	-	67:46	54:31	022
023	53:06	60:44	-	62:17	-	63:50	-	65:22	-	66:55	-	68:28	53:06	023
024	51:42	61:23	-	62:56	-	64:29	-	66:01	-	67:34	-	69:07	51:42	024
025	50:17	62:00	-	63:33	-	65:06	-	66:38	-	68:11	-	69:44	50:17	025
026	48:52	62:36	-	64:08	-	65:41	-	67:14	-	68:46	-	70:19	48:52	026
027	47:27	63:09	-	64:42	-	66:15	-	67:47	-	69:20	-	70:53	47:27	027
028	46:02	63:42	-	65:14	-	66:47	-	68:20	-	69:52	-	71:25	46:02	028
029	44:37	64:12	-	65:45	-	67:18	-	68:51	-	70:23	-	71:56	44:37	029
030	43:11	64:47	-	66:15	-	67:48	-	69:20	-	70:53	-	72:26	43:11	030
031	41:46	65:11	-	66:44	-	68:16	-	69:49	-	71:22	-	72:54	41:46	031
032	40:20	65:33	-	67:11	-	68:44	-	70:17	-	71:49	-	73:22	40:20	032
033	38:54	66:05	-	67:38	-	69:11	-	70:44	-	72:16	-	73:49	38:54	033
034	37:29	66:31	-	68:04	-	69:37	-	71:10	-	72:43	-	74:15	37:29	034
035	36:03	66:57	-	68:29	-	70:02	-	71:35	-	73:07	-	74:40	36:03	035
036	34:37	67:21	-	68:54	-	70:27	-	71:59	-	73:32	-	75:05	34:37	036
037	33:11	67:45	-	69:18	-	70:51	-	72:23	-	73:56	-	75:28	33:11	037
038	31:45	68:09	-	69:41	-	71:14	-	72:47	-	74:19	-	75:52	31:45	038
039	30:18	68:31	-	70:04	-	71:37	-	73:09	-	74:42	-	76:15	30:18	039
040	28:52	68:54	-	70:26	-	71:59	-	73:32	-	75:05	-	76:38	28:52	040
041	27:26	69:16	-	70:48	-	72:21	-	73:54	-	75:26	-	76:59	27:26	041
042	26:00	69:37	-	71:10	-	72:43	-	74:15	-	75:48	-	77:21	26:00	042
043	24:33	69:58	-	71:31	-	73:04	-	74:36	-	76:09	-	77:42	24:33	043
044	23:07	70:19	-	71:52	-	73:24	-	74:57	-	76:30	-	78:03	23:07	044
045	21:40	70:40	-	72:12	-	73:45	-	75:18	-	76:50	-	78:23	21:40	045
046	20:14	71:00	-	72:32	-	74:05	-	75:38	-	77:11	-	78:43	20:14	046
047	18:47	71:20	-	72:52	-	74:25	-	75:58	-	77:31	-	79:03	18:47	047
048	17:21	71:39	-	73:12	-	74:45	-	76:18	-	77:50	-	79:23	17:21	048
049	15:54	71:59	-	73:32	-	75:04	-	76:37	-	78:10	-	79:42	15:54	049

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050	14:27	- 72:18	- 73:51	- 75:24	- 76:56	- 78:29	- 79:59	- 81:27	- 82:54	- 84:19	- 85:44	- 87:09	- 88:34	- 89:59	14:27	050
051	13:01	- 72:37	- 74:10	- 75:43	- 77:15	- 78:48	- 80:20	- 81:52	- 83:24	- 84:56	- 86:28	- 87:59	- 89:31	- 90:54	13:01	051
052	11:34	- 72:56	- 74:29	- 76:02	- 77:34	- 79:07	- 80:39	- 82:11	- 83:43	- 85:15	- 86:47	- 88:19	- 89:51	- 91:23	11:34	052
053	10:07	- 73:15	- 74:48	- 76:21	- 77:53	- 79:26	- 80:58	- 82:30	- 84:02	- 85:34	- 87:06	- 88:38	- 90:10	- 91:42	10:07	053
054	8:41	- 73:34	- 75:07	- 76:39	- 78:12	- 79:45	- 81:17	- 82:49	- 84:21	- 85:53	- 87:25	- 88:57	- 90:29	- 92:01	8:41	054
055	7:14	- 73:53	- 75:25	- 76:58	- 78:31	- 79:59	- 81:27	- 82:54	- 84:21	- 85:49	- 87:17	- 88:49	- 90:21	- 91:53	7:14	055
056	5:47	- 74:11	- 75:44	- 77:17	- 78:49	- 80:22	- 81:54	- 83:27	- 84:59	- 86:31	- 88:03	- 89:35	- 91:07	- 92:39	5:47	056
057	4:20	- 74:30	- 76:02	- 77:35	- 79:07	- 80:39	- 82:11	- 83:43	- 85:15	- 86:47	- 88:19	- 89:51	- 91:23	- 92:55	4:20	057
058	2:54	- 74:48	- 76:21	- 77:54	- 79:26	- 80:58	- 82:30	- 84:02	- 85:34	- 87:06	- 88:38	- 90:10	- 91:42	- 93:14	2:54	058
059	1:27	- 75:07	- 76:39	- 78:12	- 79:45	- 81:17	- 82:49	- 84:21	- 85:53	- 87:25	- 88:57	- 90:29	- 92:01	- 93:33	1:27	059
060	0:00	- 75:25	- 76:58	- 78:31	- 79:59	- 81:27	- 82:54	- 84:21	- 85:49	- 87:17	- 88:49	- 90:21	- 91:53	- 93:25	0:00	060
061	-1:27	- 75:43	- 77:16	- 78:49	- 80:22	- 81:54	- 83:27	- 84:59	- 86:31	- 88:03	- 89:35	- 91:07	- 92:39	- 94:11	-1:27	061
062	-2:54	- 76:02	- 77:34	- 79:07	- 80:39	- 82:11	- 83:43	- 85:15	- 86:47	- 88:19	- 89:51	- 91:23	- 92:55	- 94:27	-2:54	062
063	-4:20	- 76:20	- 77:53	- 79:26	- 80:58	- 82:30	- 84:02	- 85:34	- 87:06	- 88:38	- 89:59	- 91:21	- 92:43	- 94:05	-4:20	063
064	-5:47	- 76:39	- 78:11	- 79:44	- 81:17	- 82:49	- 84:21	- 85:53	- 87:25	- 88:57	- 90:29	- 92:01	- 93:23	- 94:45	-5:47	064
065	-7:14	- 76:57	- 78:30	- 80:03	- 81:35	- 83:08	- 84:40	- 86:12	- 87:44	- 89:16	- 90:48	- 92:20	- 93:52	- 95:14	-7:14	065
066	-8:41	- 77:16	- 78:49	- 80:22	- 81:54	- 83:27	- 84:59	- 86:31	- 88:03	- 89:35	- 91:07	- 92:39	- 94:11	- 95:33	-8:41	066
067	-10:07	- 77:35	- 79:07	- 80:40	- 82:12	- 83:44	- 85:16	- 86:48	- 88:20	- 89:52	- 91:24	- 92:56	- 94:28	- 95:50	-10:07	067
068	-11:34	- 77:54	- 79:26	- 80:59	- 82:31	- 84:03	- 85:35	- 87:07	- 88:39	- 90:11	- 91:43	- 93:15	- 94:47	- 96:09	-11:34	068
069	-13:01	- 78:12	- 79:45	- 81:18	- 82:50	- 84:22	- 85:54	- 87:26	- 88:58	- 90:30	- 92:02	- 93:34	- 95:06	- 96:38	-13:01	069
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071	-15:54	- 78:51	- 80:24	- 81:56	- 83:29	- 85:02	- 86:34	- 88:06	- 89:38	- 91:10	- 92:42	- 94:14	- 95:46	- 97:18	-15:54	071
072	-17:21	- 79:10	- 80:43	- 82:16	- 83:49	- 85:21	- 86:53	- 88:25	- 89:57	- 91:29	- 93:01	- 94:33	- 96:05	- 97:37	-17:21	072
073	-18:47	- 79:30	- 81:03	- 82:36	- 84:08	- 85:41	- 87:13	- 88:45	- 90:17	- 91:49	- 93:21	- 94:53	- 96:25	- 97:57	-18:47	073
074	-20:14	- 79:50	- 81:23	- 82:55	- 84:28	- 86:01	- 87:33	- 89:05	- 90:37	- 92:09	- 93:41	- 95:13	- 96:45	- 98:17	-20:14	074
075	-21:40	- 80:10	- 81:43	- 83:16	- 84:48	- 86:21	- 87:53	- 89:25	- 90:57	- 92:29	- 94:01	- 95:33	- 97:05	- 98:37	-21:40	075
076	-23:07	- 80:31	- 82:03	- 83:36	- 85:09	- 86:42	- 88:14	- 89:46	- 91:18	- 92:50	- 94:22	- 95:54	- 97:26	- 98:58	-23:07	076
077	-24:33	- 80:52	- 82:24	- 83:57	- 85:30	- 87:02	- 88:34	- 90:06	- 91:38	- 93:10	- 94:42	- 96:14	- 97:46	- 99:18	-24:33	077
078	-26:00	- 81:13	- 82:45	- 84:18	- 85:51	- 87:24	- 88:56	- 90:28	- 92:00	- 93:32	- 95:04	- 96:36	- 98:08	- 99:40	-26:00	078
079	-27:26	- 81:34	- 83:07	- 84:40	- 86:12	- 87:45	- 89:17	- 90:49	- 92:21	- 93:53	- 95:25	- 96:57	- 98:29	- 99:61	-27:26	079
080	-28:52	- 81:56	- 83:29	- 85:02	- 86:34	- 88:07	- 89:39	- 91:11	- 92:43	- 94:15	- 95:47	- 97:19	- 98:51	- 100:23	-28:52	080
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083	-33:11	- 83:05	- 84:37	- 86:10	- 87:43	- 89:15	- 90:47	- 92:19	- 93:51	- 95:23	- 96:55	- 98:27	- 99:59	- 101:31	-33:11	083
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089	-41:46	- 85:39	- 87:12	- 88:44	- 90:17	- 91:49	- 93:21	- 94:53	- 96:25	- 97:57	- 99:29	- 101:01	- 102:33	- 104:05	-41:46	089
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091	-44:37	- 86:37	- 88:10	- 89:43	- 91:15	- 92:48	- 94:20	- 95:52	- 97:24	- 98:56	- 100:28	- 102:00	- 103:32	- 105:04	-44:37	091
092	-46:02	- 87:08	- 88:41	- 90:14	- 91:46	- 93:19	- 94:51	- 96:23	- 97:55	- 99:27	- 100:59	- 102:31	- 104:03	- 105:35	-46:02	092
093	-47:27	- 87:41	- 89:13	- 90:46	- 92:18	- 93:50	- 95:22	- 96:54	- 98:26	- 99:58	- 101:30	- 103:02	- 104:34	- 106:06	-47:27	093
094	-48:52	- 88:14	- 89:47	- 91:20	- 92:52	- 94:25	- 95:57	- 97:29	- 99:01	- 100:33	- 102:05	- 103:37	- 105:09	- 106:41	-48:52	094
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098	-54:31	- 90:47	- 92:20	- 93:52	- 95:25	- 96:58	- 98:30	- 100:02	- 101:34	- 103:06	- 104:38	- 106:10	- 107:42	- 109:14	-54:31	098

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
			008	009	010	011	012	013	014					
099	-55:55	-91:31	-93:04	-94:36	-96:09	-97:42	-99:14	-100:47	-55:55	099				
100	-57:19	-92:17	-93:50	-95:23	-96:56	-98:29	-100:01	-101:34	-57:19	100				
101	-58:42	-93:07	-94:40	-96:13	-97:45	-99:18	-100:51	-102:24	-58:42	101				
102	-60:06	-94:01	-95:34	-97:06	-98:39	-100:12	-101:44	-103:17	-60:06	102				
103	-61:29	-94:58	-96:31	-98:04	-99:37	-101:09	-102:42	-104:15	-61:29	103				
104	-62:51	-95:51	-97:24	-98:56	-100:30	-102:03	-103:36	-105:10	-62:51	104				
105	-64:14	-96:41	-98:14	-100:14	-101:47	-103:20	-104:52	-106:25	-64:14	105				
106	-65:35	-97:09	-98:41	-100:14	-101:47	-103:20	-104:52	-106:25	-65:35	106				
107	-66:57	-98:17	-99:45	-101:18	-102:48	-104:18	-105:48	-107:18	-66:57	107				
108	-68:17	-99:16	-100:45	-102:18	-103:48	-105:18	-106:48	-108:18	-68:17	108				
109	-69:37	-100:15	-101:45	-103:15	-104:45	-106:15	-107:45	-109:15	-69:37	109				
110	-70:55	-101:14	-102:44	-104:14	-105:44	-107:14	-108:44	-110:14	-70:55	110				
111	-72:13	-102:13	-103:43	-105:13	-106:43	-108:13	-109:43	-111:13	-72:13	111				
112	-73:29	-103:12	-104:42	-106:12	-107:42	-109:12	-110:42	-112:12	-73:29	112				
113	-74:43	-104:11	-105:41	-107:11	-108:41	-110:11	-111:41	-113:11	-74:43	113				
114	-75:54	-105:10	-106:40	-108:10	-109:40	-111:10	-112:40	-114:10	-75:54	114				
115	-77:08	-106:09	-107:39	-109:09	-110:39	-112:09	-113:39	-115:09	-77:08	115				
116	-78:08	-107:08	-108:38	-110:08	-111:38	-113:08	-114:38	-116:08	-78:08	116				
117	-79:08	-108:07	-109:37	-111:07	-112:37	-114:07	-115:37	-117:07	-79:08	117				
118	-80:02	-109:06	-110:36	-112:06	-113:36	-115:06	-116:36	-118:06	-80:02	118				
119	-80:47	-110:05	-111:35	-113:05	-114:35	-116:05	-117:35	-119:05	-80:47	119				
120	-81:22	-111:04	-112:34	-114:04	-115:34	-117:04	-118:34	-120:04	-81:22	120				
121	-81:44	-112:03	-113:33	-115:03	-116:33	-118:03	-119:33	-121:03	-81:44	121				
122	-81:51	-113:02	-114:32	-116:02	-117:32	-119:02	-120:32	-122:02	-81:51	122				
123	-81:44	-114:01	-115:31	-117:01	-118:31	-120:01	-121:31	-123:01	-81:44	123				
124	-81:22	-115:00	-116:30	-118:00	-119:30	-121:00	-122:30	-124:00	-81:22	124				
125	-80:47	-116:00	-117:30	-119:00	-120:30	-122:00	-123:30	-125:00	-80:47	125				
126	-80:02	-117:00	-118:30	-120:00	-121:30	-123:00	-124:30	-126:00	-80:02	126				
127	-79:08	-118:00	-119:30	-121:00	-122:30	-124:00	-125:30	-127:00	-79:08	127				
128	-78:08	-119:00	-120:30	-122:00	-123:30	-125:00	-126:30	-128:00	-78:08	128				
129	-77:03	-120:00	-121:30	-123:00	-124:30	-126:00	-127:30	-129:00	-77:03	129				
130	-75:54	-121:00	-122:30	-124:00	-125:30	-127:00	-128:30	-130:00	-75:54	130				
131	-74:43	-122:00	-123:30	-125:00	-126:30	-128:00	-129:30	-131:00	-74:43	131				
132	-73:29	-123:00	-124:30	-126:00	-127:30	-129:00	-130:30	-132:00	-73:29	132				
133	-72:13	-124:00	-125:30	-127:00	-128:30	-130:00	-131:30	-133:00	-72:13	133				
134	-70:55	-125:00	-126:30	-128:00	-129:30	-131:00	-132:30	-134:00	-70:55	134				
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136	-68:17	-127:00	-128:30	-130:00	-131:30	-133:00	-134:30	-136:00	-68:17	136				
137	-66:57	-128:00	-129:30	-131:00	-132:30	-134:00	-135:30	-137:00	-66:57	137				
138	-65:35	-129:00	-130:30	-132:00	-133:30	-135:00	-136:30	-138:00	-65:35	138				
139	-64:14	-130:00	-131:30	-133:00	-134:30	-136:00	-137:30	-139:00	-64:14	139				
140	-62:51	-131:00	-132:30	-134:00	-135:30	-137:00	-138:30	-140:00	-62:51	140				
141	-61:29	-132:00	-133:30	-135:00	-136:30	-138:00	-139:30	-141:00	-61:29	141				
142	-60:06	-133:00	-134:30	-136:00	-137:30	-139:00	-140:30	-142:00	-60:06	142				
143	-58:42	-134:00	-135:30	-137:00	-138:30	-140:00	-141:30	-143:00	-58:42	143				
144	-57:19	-135:00	-136:30	-138:00	-139:30	-141:00	-142:30	-144:00	-57:19	144				
145	-55:55	-136:00	-137:30	-139:00	-140:30	-142:00	-143:30	-145:00	-55:55	145				
146	-54:31	-137:00	-138:30	-140:00	-141:30	-143:00	-144:30	-146:00	-54:31	146				
147	-53:06	-138:00	-139:30	-141:00	-142:30	-144:00	-145:30	-147:00	-53:06	147				

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N TIONAL AERONAUTICS AND SPACE ADMINISTRATION
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PATH/ROW 10 LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	C	(DEGREES MINUTES)	LATITUDE	ROW
			008		009		010		011		012			
148	-51:42	106:15	104:42	103:10	101:37	100:04	98:32	96:59	95:22	93:59	92:17	90:42	-51:42	148
149	-50:17	105:38	104:05	102:13	101:00	99:27	97:55	96:22	94:49	93:16	91:43	90:10	-50:17	149
150	-48:52	105:03	103:30	101:57	100:25	98:52	97:19	95:47	94:14	92:41	91:08	89:35	-48:52	150
151	-47:27	104:29	102:56	101:24	99:51	98:18	96:46	95:13	93:40	92:07	90:34	89:01	-47:27	151
152	-46:02	103:57	102:24	100:51	99:19	97:46	96:13	94:41	93:08	91:35	89:62	87:89	-46:02	152
153	-44:37	103:26	101:53	100:20	98:48	97:15	95:42	94:10	92:37	91:04	89:31	87:58	-44:37	153
154	-43:11	102:56	101:23	99:51	98:18	96:45	95:13	93:40	92:07	90:34	89:01	87:28	-43:11	154
155	-41:46	102:27	100:55	99:22	97:49	96:17	94:44	93:11	91:38	89:65	87:92	86:19	-41:46	155
156	-40:20	102:00	100:27	98:54	97:22	95:49	94:16	92:44	91:11	89:38	87:65	85:92	-40:20	156
157	-38:54	101:33	100:00	98:28	96:55	95:22	93:49	92:17	90:44	89:11	87:38	85:65	-38:54	157
158	-37:29	101:07	99:34	98:02	96:29	94:56	93:23	91:51	90:18	88:45	87:12	85:39	-37:29	158
159	-36:03	100:42	99:09	97:36	95:04	93:31	91:58	90:25	88:52	87:19	85:46	84:13	-36:03	159
160	-34:37	100:17	98:44	97:12	95:39	94:06	92:33	91:01	89:28	87:55	86:22	84:49	-34:37	160
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162	-31:45	99:30	97:57	96:24	94:52	93:19	91:46	90:14	88:41	87:08	85:35	84:02	-31:45	162
163	-30:18	99:07	97:34	96:02	94:29	92:56	91:23	89:51	88:18	86:45	85:12	83:39	-30:18	163
164	-28:52	98:45	97:12	95:39	94:07	92:34	91:01	89:28	87:55	86:23	84:50	83:17	-28:52	164
165	-27:26	98:23	96:50	95:17	93:45	92:12	90:39	89:07	87:34	85:61	83:88	82:15	-27:26	165
166	-26:00	98:01	96:28	94:56	93:23	91:50	90:18	88:45	87:12	85:39	84:06	82:33	-26:00	166
167	-24:33	97:40	96:07	94:35	93:02	91:29	89:56	88:23	86:50	85:17	83:44	82:11	-24:33	167
168	-23:07	97:19	95:47	94:14	92:41	91:08	89:36	88:03	86:30	84:57	83:24	81:51	-23:07	168
169	-21:40	96:59	95:26	93:53	92:21	90:48	89:15	87:43	86:10	84:37	83:04	81:31	-21:40	169
170	-20:14	96:39	95:06	93:33	92:00	90:28	88:55	87:22	85:49	84:16	82:43	81:10	-20:14	170
171	-18:47	96:19	94:46	93:13	91:41	90:08	88:35	87:02	85:29	83:56	82:23	80:50	-18:47	171
172	-17:21	95:59	94:26	92:54	91:21	89:48	88:15	86:43	85:10	83:37	82:04	80:31	-17:21	172
173	-15:54	95:39	94:07	92:34	91:01	89:29	87:56	86:23	84:50	83:17	81:44	80:11	-15:54	173
174	-14:27	95:20	93:47	92:15	90:42	89:09	87:37	85:64	83:91	82:18	80:45	79:12	-14:27	174
175	-13:01	95:01	93:28	91:56	90:23	88:50	87:17	85:45	83:72	82:00	80:27	78:54	-13:01	175
176	-11:34	94:42	93:09	91:37	90:04	88:31	86:59	85:26	83:53	82:20	80:47	79:14	-11:34	176
177	-10:07	94:23	92:50	91:18	89:45	88:12	86:40	85:07	83:34	81:61	79:88	78:15	-10:07	177
178	-8:41	94:04	92:32	90:59	89:26	87:54	86:21	84:48	83:15	81:42	79:69	77:96	-8:41	178
179	-7:14	93:46	92:13	90:40	89:07	87:35	85:62	83:89	82:16	80:43	78:70	76:97	-7:14	179
180	-5:47	93:27	91:55	90:22	88:49	87:16	85:43	83:70	81:97	80:24	78:51	77:18	-5:47	180
181	-4:20	93:09	91:36	90:03	88:31	86:58	85:25	83:52	82:19	80:46	78:73	77:00	-4:20	181
182	-2:54	92:50	91:18	89:45	88:12	86:39	85:07	83:34	81:61	79:88	78:15	76:42	-2:54	182
183	-1:27	92:32	90:59	89:26	87:54	86:21	84:48	83:15	81:42	79:69	77:96	76:23	-1:27	183
184	0:00	92:13	90:41	89:08	87:35	85:62	83:89	82:16	80:43	78:70	76:97	75:24	0:00	184
185	1:27	91:55	90:22	88:50	87:17	85:44	83:71	81:98	80:25	78:52	77:19	75:46	1:27	185
186	2:54	91:37	90:04	88:31	86:59	85:26	83:53	82:20	80:47	78:74	77:01	75:28	2:54	186
187	4:20	91:18	89:45	88:13	86:40	85:07	83:34	81:61	79:88	78:15	76:42	74:69	4:20	187
188	5:47	91:00	89:27	87:54	86:22	84:49	83:16	81:43	79:70	77:97	76:24	74:51	5:47	188
189	7:14	90:41	89:08	87:36	85:63	84:30	82:57	81:24	79:51	77:78	76:05	74:32	7:14	189
190	8:41	90:22	88:50	87:17	85:44	84:12	82:39	80:66	78:93	77:20	75:47	73:74	8:41	190
191	10:07	90:04	88:31	86:58	85:26	83:53	82:20	80:47	78:74	77:01	75:28	73:55	10:07	191
192	11:34	89:45	88:12	86:39	85:07	83:34	82:04	80:31	78:58	77:25	75:52	74:19	11:34	192
193	13:01	89:26	87:53	86:20	84:48	83:15	81:42	79:69	77:96	76:23	74:50	73:17	13:01	193
194	14:27	89:07	87:34	86:01	84:29	82:56	81:23	79:51	77:78	76:05	74:32	72:59	14:27	194
195	15:54	88:47	87:15	85:42	84:09	82:37	81:04	79:31	77:58	76:25	74:52	73:19	15:54	195
196	17:21	88:24	86:55	85:23	83:50	82:17	80:44	79:12	77:39	75:66	73:93	72:20	17:21	196

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
197	18147	88108	86136		85103		81157		80125		78152		18147	197
198	20114	87148	85116		84143		81137		80105		78132		20114	198
199	21140	87128	85155		84123		81117		79145		78112		21140	199
200	23107	87108	85135		84102		80157		79124		77151		23107	200
201	24133	86147	85114		83141		80136		79103		77131		24133	201
202	26100	86126	84153		83120		80115		78142		77109		26100	202
203	27126	86104	84131		82159		79153		78121		76148		27126	203
204	28152	85142	84110		82137		79131		77159		76126		28152	204
205	30118	85120	83147		82114		79109		77136		76104		30118	205
206	31145	84157	83124		81152		78146		77114		75141		31145	206
207	33111	84136	83101		81128		78123		76150		75117		33111	207
208	34137	84110	82137		81104		77159		76126		74129		34137	208
209	36103	83145	82112		80140		77134		76102		74104		36103	209
210	37129	83120	81147		80115		77109		75136		73111		37129	210
211	38154	82154	81121		79149		76143		75110		73138		38154	211
212	40120	82127	80154		79122		76116		74146		73111		40120	212
213	41146	81159	80127		78154		75149		74116		72143		41146	213
214	43111	81131	79158		78125		75120		73147		72115		43111	214
215	44137	81101	79128		77156		74150		73117		71145		44137	215
216	46102	80130	78157		77125		74119		72847		71114		46102	216
217	47127	79158	78125		76152		73147		72114		70142		47127	217
218	48152	79124	77151		76119		73113		71841		70108		48152	218
219	50117	78149	77116		75143		72138		71805		69134		50117	219
220	51142	78122	76139		75106		72101		70128		68155		51142	220
221	53106	77133	76100		74127		71122		69149		68116		53106	221
222	54131	76151	75119		73146		70141		69108		67135		54131	222
223	55155	76108	74135		73102		69157		68124		66151		55155	223
224	57119	75121	73148		72115		69110		67117		66105		57119	224
225	58142	74131	72158		71126		68120		66148		65115		58142	225
226	60106	73138	72105		70132		67127		65154		64121		60106	226
227	61129	72140	71107		69135		66129		64156		63124		61129	227
228	62151	71138	70105		68132		65127		63154		62121		62151	228
229	64114	70130	68157		67124		64119		62146		61113		64114	229
230	65135	69115	67143		66110		63104		61132		59159		65135	230
231	66157	68153	66121		64148		61143		60110		58137		66157	231
232	68117	66123	64150		63117		60112		58139		57106		68117	232
233	69137	64141	63109		61136		58131		56158		55125		69137	233
234	70155	62148	61115		59142		56137		55104		53134		70155	234
235	72113	60139	59106		57133		54128		52155		51123		72113	235
236	73129	58112	56139		55106		52101		50128		48155		73129	236
237	74143	55122	53149		52116		49111		47139		46106		74143	237
238	75154	52105	50132		48159		45154		44121		42149		75154	238
239	77108	49114	46141		45108		42103		40158		38159		77108	239
240	78108	43141	42109		40136		37130		35158		34123		78108	240
241	79106	38118	36146		35113		32107		30135		29102		79106	241
242	80102	31156	30123		28150		25145		24112		22140		80102	242
243	80147	24154	22154		21121		18116		16143		15110		80147	243
244	81122	15143	14116		12144		9138		8105		6133		81122	244
245	81144	61133	4140		3108		0102		1130		3103		81144	245

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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
246	81:51	-	3:57	-	5:30	-	7:03	-	8:35	-	10:08	-	11:41	246
247	81:44	-	14:08	-	15:41	-	17:13	-	18:46	-	20:19	-	21:51	247
248	81:22	-	23:44	-	25:16	-	26:49	-	28:22	-	29:55	-	31:27	248

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ROW	LATITUDE	PATH: 015	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
001	80147	18127	-	20100	-	21132	-	23105	-	24138	-	25110	80147	001
002	80102	25156	-	27129	-	29102	-	30134	-	32107	-	33140	80102	002
003	79108	32119	-	33151	-	35124	-	36157	-	38130	-	40102	79108	003
004	78108	37142	-	39114	-	40147	-	42120	-	43152	-	45125	78108	004
005	77103	42114	-	43147	-	45120	-	46152	-	48125	-	49149	77103	005
006	75154	46105	-	47130	-	49111	-	50143	-	52116	-	53149	75154	006
007	74143	49122	-	50155	-	52128	-	54100	-	55133	-	57106	74143	007
008	73129	52112	-	53145	-	55117	-	56150	-	58123	-	60106	73129	008
009	72113	54139	-	56112	-	57145	-	59117	-	60150	-	62123	72113	009
010	70155	56148	-	58121	-	59153	-	61126	-	62159	-	64132	70155	010
011	69137	58142	-	60115	-	61147	-	63120	-	64153	-	66125	69137	011
012	68117	60123	-	61156	-	63128	-	65101	-	66134	-	68107	68117	012
013	66157	61154	-	63126	-	64159	-	66132	-	68105	-	69137	66157	013
014	65135	63116	-	64148	-	66121	-	67154	-	69126	-	70159	65135	014
015	64114	64130	-	65103	-	67135	-	69108	-	70141	-	72114	64114	015
016	62151	65138	-	67111	-	68143	-	70116	-	71149	-	73121	62151	016
017	61129	66140	-	68113	-	69146	-	71118	-	72151	-	74124	61129	017
018	60106	67138	-	69111	-	70143	-	72116	-	73149	-	75121	60106	018
019	58142	68131	-	70104	-	71137	-	73110	-	74142	-	76114	58142	019
020	57119	69121	-	70154	-	72127	-	73159	-	75132	-	77105	57119	020
021	55155	70108	-	71141	-	73113	-	74146	-	76119	-	78124	55155	021
022	54131	70152	-	72124	-	73157	-	75130	-	77103	-	79124	54131	022
023	53106	71133	-	73106	-	74138	-	76111	-	78144	-	80119	53106	023
024	51142	72112	-	73145	-	75118	-	76150	-	78123	-	80149	51142	024
025	50117	72149	-	74122	-	75155	-	77127	-	79100	-	81128	50117	025
026	48152	73125	-	74157	-	76130	-	78103	-	79135	-	81108	48152	026
027	47127	73158	-	75131	-	77104	-	78136	-	80109	-	82114	47127	027
028	46102	74130	-	76134	-	78107	-	79140	-	81112	-	83147	46102	028
029	44157	75101	-	77125	-	79105	-	80109	-	82145	-	84137	44157	029
030	43111	75131	-	77104	-	79137	-	80109	-	82142	-	84137	43111	030
031	41146	76100	-	78125	-	80100	-	81132	-	83105	-	85116	41146	031
032	40120	76128	-	78128	-	80127	-	81132	-	83105	-	85116	40120	032
033	38154	77120	-	79118	-	81126	-	82124	-	84121	-	86111	38154	033
034	37129	77146	-	79143	-	81139	-	82148	-	84121	-	86111	37129	034
035	36103	78134	-	80107	-	81139	-	83112	-	84121	-	86111	36103	035
036	34137	78157	-	80130	-	82103	-	83136	-	85108	-	87150	34137	036
037	33111	79143	-	81115	-	82126	-	84121	-	85153	-	87150	33111	037
038	31145	80105	-	81137	-	83110	-	84143	-	86115	-	88141	31145	038
039	30118	80126	-	81159	-	83153	-	85125	-	86158	-	88141	30118	039
040	28152	81105	-	82120	-	84113	-	85146	-	87119	-	89121	28152	040
041	27126	81147	-	82141	-	84154	-	86127	-	88100	-	89121	27126	041
042	26100	82108	-	83121	-	85134	-	87106	-	88139	-	90112	26100	042
043	24133	82147	-	83159	-	85153	-	87126	-	89110	-	90112	24133	043
044	23107	83108	-	84101	-	86107	-	88132	-	90103	-	91105	23107	044
045	21140	83128	-	84121	-	86107	-	88132	-	90103	-	91105	21140	045
046	20114	83149	-	84141	-	86107	-	88132	-	90103	-	91105	20114	046
047	18147	83109	-	84101	-	86107	-	88132	-	90103	-	91105	18147	047
048	17121	83128	-	84121	-	86107	-	88132	-	90103	-	91105	17121	048
049	15154	83148	-	84141	-	86107	-	88132	-	90103	-	91105	15154	049

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ROW	LATITUDE	DATUM	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
050	14127	-	83107	-	84140	-	86113	-	87145	-	89118	-	91123	050
051	13101	-	83126	-	84159	-	86132	-	88104	-	89137	-	91143	051
052	11134	-	83145	-	85118	-	86151	-	88123	-	89156	-	91150	052
053	10107	-	84104	-	85137	-	87110	-	88142	-	90115	-	91129	053
054	8141	-	84123	-	85156	-	87128	-	89101	-	90134	-	92106	054
055	7114	-	84142	-	86114	-	87147	-	89120	-	90152	-	92125	055
056	5147	-	85100	-	86133	-	88105	-	89138	-	91111	-	92144	056
057	4120	-	85119	-	86151	-	88124	-	89157	-	91129	-	93102	057
058	2154	-	85137	-	87110	-	88142	-	90115	-	91148	-	93121	058
059	1127	-	85155	-	87128	-	89101	-	90134	-	92106	-	93139	059
060	0100	-	86114	-	87147	-	89119	-	90152	-	92125	-	93157	060
061	-1127	-	86132	-	88105	-	89138	-	91111	-	92143	-	94116	061
062	-2154	-	86151	-	88123	-	89156	-	91129	-	93101	-	94134	062
063	-3120	-	87109	-	88142	-	90115	-	91147	-	93120	-	94153	063
064	-5147	-	87128	-	89100	-	90133	-	92105	-	93138	-	95111	064
065	-7114	-	87146	-	89119	-	90152	-	92124	-	93157	-	95130	065
066	-8141	-	88105	-	89138	-	91129	-	92143	-	94116	-	95148	066
067	-10107	-	88124	-	89156	-	91148	-	93102	-	94134	-	96107	067
068	-11134	-	89101	-	90134	-	92107	-	93121	-	94153	-	96126	068
069	-13101	-	89121	-	90153	-	92126	-	93140	-	95112	-	96145	069
070	-14127	-	89140	-	91113	-	92145	-	94118	-	95131	-	97104	070
071	-15154	-	89159	-	91132	-	93105	-	94137	-	95151	-	97123	071
072	-17121	-	90119	-	91152	-	93124	-	94157	-	96130	-	98103	072
073	-18147	-	90139	-	92112	-	93144	-	95117	-	96150	-	98123	073
074	-20114	-	90159	-	92132	-	94125	-	95137	-	97110	-	99103	074
075	-21140	-	91140	-	93113	-	94186	-	96119	-	97131	-	99124	075
076	-23107	-	92102	-	93134	-	95107	-	96140	-	98112	-	100157	076
077	-24133	-	92123	-	93156	-	95129	-	97101	-	98134	-	101118	077
078	-26100	-	92145	-	94118	-	96113	-	97123	-	98156	-	101139	078
079	-28152	-	93107	-	94140	-	96136	-	97146	-	99118	-	102101	079
080	-30118	-	93126	-	94159	-	96159	-	98108	-	99141	-	102124	080
081	-31145	-	93154	-	95116	-	96159	-	98132	-	99154	-	102146	081
082	-33111	-	94118	-	95130	-	97123	-	98156	-	100104	-	103137	082
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085	-37129	-	95133	-	97116	-	98139	-	101138	-	102111	-	104171	085
086	-38154	-	96100	-	98113	-	99106	-	101306	-	102139	-	105116	086
087	-40120	-	96128	-	98119	-	99122	-	101335	-	103107	-	105144	087
088	-41146	-	96157	-	98129	-	99132	-	101358	-	103137	-	105166	088
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098		-		-		-		-		-		-		098

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES)MINUTES	LATITUDE	ROW
099	-55:55	-102:20	-103:52	-105:25	-106:12	-107:02	-107:55	-108:53	-109:50	-110:45	-111:40	-112:33	-113:26	099
100	-57:19	-103:06	-104:39	-106:12	-107:02	-107:55	-108:53	-109:50	-110:45	-111:40	-112:33	-113:26	-114:19	100
101	-58:42	-103:56	-105:29	-107:02	-107:55	-108:53	-109:50	-110:45	-111:40	-112:33	-113:26	-114:19	-115:12	101
102	-60:06	-104:50	-106:22	-107:55	-108:53	-109:50	-110:45	-111:40	-112:33	-113:26	-114:19	-115:12	-116:05	102
103	-61:29	-105:47	-107:20	-108:53	-109:50	-110:45	-111:40	-112:33	-113:26	-114:19	-115:12	-116:05	-116:58	103
104	-62:51	-106:50	-108:30	-109:50	-110:45	-111:40	-112:33	-113:26	-114:19	-115:12	-116:05	-116:58	-117:51	104
105	-64:14	-107:58	-109:30	-110:45	-111:40	-112:33	-113:26	-114:19	-115:12	-116:05	-116:58	-117:51	-118:44	105
106	-65:35	-109:12	-110:45	-111:40	-112:33	-113:26	-114:19	-115:12	-116:05	-116:58	-117:51	-118:44	-119:37	106
107	-66:57	-110:34	-112:07	-113:39	-115:10	-116:51	-118:45	-120:38	-122:32	-124:25	-126:18	-128:12	-129:05	107
108	-68:17	-112:05	-113:37	-115:10	-116:51	-118:45	-120:38	-122:32	-124:25	-126:18	-128:12	-129:05	-130:00	108
109	-69:37	-113:46	-115:19	-116:51	-118:45	-120:38	-122:32	-124:25	-126:18	-128:12	-129:05	-130:00	-130:53	109
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113	-74:43	-123:05	-124:38	-126:11	-129:02	-131:51	-134:40	-137:29	-140:18	-143:07	-145:56	-148:45	-151:34	113
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147	-53:06	-96:105	-96:97	-97:84	-98:71	-99:58	-100:45	-101:32	-102:19	-103:06	-103:93	-104:80	-105:67	147

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149	-50:17	94:49	93:16	91:44	90:11	88:38	87:06	85:33					-50:17	149
150	-48:52	94:14	92:41	91:08	89:36	88:03	86:30	84:58					-48:52	150
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155	-41:46	91:39	90:06	88:33	87:00	85:28	83:55	82:22					-41:46	155
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157	-38:54	90:44	89:11	87:39	86:06	84:33	83:00	81:28					-38:54	157
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159	-36:03	89:53	88:20	86:47	85:15	83:42	82:10	80:37					-36:03	159
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165	-27:26	87:34	86:01	84:28	82:56	81:23	79:50	78:18					-27:26	165
166	-26:00	87:12	85:40	84:07	82:34	81:01	79:29	77:56					-26:00	166
167	-24:33	86:51	85:18	83:46	82:13	80:40	79:08	77:35					-24:33	167
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170	-20:14	85:50	84:17	82:44	81:12	79:39	78:06	76:34					-20:14	170
171	-18:47	85:30	83:57	82:24	80:52	79:19	77:46	76:14					-18:47	171
172	-17:21	85:10	83:37	82:05	80:32	78:59	77:27	75:54					-17:21	172
173	-15:54	84:51	83:18	81:45	80:12	78:40	77:07	75:34					-15:54	173
174	-14:27	84:31	82:59	81:26	79:53	78:20	76:48	75:15					-14:27	174
175	-13:01	84:12	82:39	81:07	79:34	78:01	76:29	74:56					-13:01	175
176	-11:34	83:53	82:20	80:48	79:15	77:42	76:10	74:37					-11:34	176
177	-10:07	83:34	82:02	80:29	78:56	77:23	75:51	74:18					-10:07	177
178	-8:41	83:16	81:43	80:10	78:37	76:54	75:22	73:49					-8:41	178
179	-7:14	82:57	81:24	79:51	78:19	76:46	75:14	73:41					-7:14	179
180	-5:47	82:38	81:06	79:33	78:00	76:28	74:55	73:23					-5:47	180
181	-4:20	82:20	80:47	79:14	77:42	76:09	74:36	73:04					-4:20	181
182	-2:54	82:01	80:29	78:56	77:23	75:51	74:18	72:45					-2:54	182
183	-1:27	81:43	80:10	78:38	76:55	75:22	73:49	72:17					-1:27	183
184	0:00	81:25	79:52	78:19	76:46	75:14	73:41	72:08					0:00	184
185	1:27	81:06	79:33	78:01	76:28	74:55	73:23	71:50					1:27	185
186	2:54	80:48	79:15	77:42	76:10	74:37	73:04	71:31					2:54	186
187	4:20	80:29	78:57	77:24	75:51	74:18	72:46	71:13					4:20	187
188	5:47	80:11	78:38	76:55	75:22	73:49	72:17	70:45					5:47	188
189	7:14	79:52	78:19	76:47	75:14	73:41	72:09	70:36					7:14	189
190	8:41	79:34	78:01	76:28	74:55	73:23	71:50	70:17					8:41	190
191	10:07	79:15	77:42	76:09	74:37	73:04	71:31	69:59					10:07	191
192	11:34	78:56	77:23	75:51	74:18	72:45	71:12	69:40					11:34	192
193	13:01	78:37	77:04	75:32	73:59	72:26	70:53	69:21					13:01	193
194	14:27	78:18	76:45	75:12	73:40	72:07	70:34	69:02					14:27	194
195	15:54	77:59	76:26	74:53	73:20	71:48	70:15	68:42					15:54	195
196	17:21	77:39	76:06	74:34	73:01	71:28	69:55	68:23					17:21	196

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PATH/ROW TO LATITUDE/LONGITUDE
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ROW	LATITUDE	PA	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
			015	016	017	018	019	020	021					
197	18:47	71:19	75:47	74:14	72:41	71:08	69:36	68:03	18:47	197				
198	20:14	76:59	75:27	73:54	72:21	70:49	69:16	67:43	20:14	198				
199	21:40	78:39	77:06	75:34	74:01	72:28	70:56	69:23	21:40	199				
200	23:07	80:19	78:46	77:13	75:41	74:08	72:35	71:02	23:07	200				
201	24:33	81:58	80:25	78:52	77:20	75:47	74:14	72:42	24:33	201				
202	26:00	83:37	82:04	80:31	78:59	77:26	75:53	74:20	26:00	202				
203	27:26	85:15	83:43	82:10	80:37	79:04	77:31	75:58	27:26	203				
204	28:52	86:53	85:21	83:48	82:15	80:42	79:09	77:36	28:52	204				
205	30:18	88:31	86:99	85:26	83:53	82:20	80:47	79:14	30:18	205				
206	31:45	90:08	88:26	86:53	85:20	83:47	82:14	80:41	31:45	206				
207	33:11	91:45	89:53	88:20	86:47	85:14	83:41	82:08	33:11	207				
208	34:37	93:23	91:31	89:58	88:25	86:52	85:19	83:46	34:37	208				
209	36:03	95:00	93:08	91:35	89:62	88:29	86:56	85:23	36:03	209				
210	37:29	96:38	94:46	93:13	91:40	89:67	88:34	87:01	37:29	210				
211	38:54	98:15	96:23	94:50	93:17	91:44	89:71	88:38	38:54	211				
212	40:20	99:53	98:01	96:28	94:55	93:22	91:49	90:16	40:20	212				
213	41:46	101:30	99:78	98:05	96:32	95:00	93:27	91:53	41:46	213				
214	43:11	103:08	101:56	100:23	98:50	97:18	95:45	94:12	43:11	214				
215	44:37	104:45	103:33	102:00	100:27	98:54	97:21	95:48	44:37	215				
216	46:02	106:23	105:11	103:38	102:05	100:32	99:00	97:27	46:02	216				
217	47:27	108:00	106:88	105:15	103:42	102:10	100:37	99:04	47:27	217				
218	48:52	109:38	107:66	106:33	105:00	103:27	101:54	100:21	48:52	218				
219	50:17	111:15	109:43	108:40	107:07	105:34	104:01	102:28	50:17	219				
220	51:42	112:53	111:20	110:17	108:44	107:11	105:38	104:05	51:42	220				
221	53:06	114:30	113:07	112:04	110:31	108:58	107:25	105:52	53:06	221				
222	54:31	116:08	114:45	113:42	112:09	110:36	109:03	107:29	54:31	222				
223	55:55	117:45	116:22	115:19	114:16	112:43	111:10	109:36	55:55	223				
224	57:19	119:23	118:00	116:57	115:54	114:21	112:48	111:15	57:19	224				
225	58:42	121:00	119:37	118:34	117:31	115:58	114:25	112:52	58:42	225				
226	60:06	122:38	121:15	120:12	119:09	117:36	116:03	114:30	60:06	226				
227	61:29	124:15	122:52	121:49	120:46	119:13	117:40	116:07	61:29	227				
228	62:51	125:53	124:30	123:27	122:24	120:51	119:18	117:45	62:51	228				
229	64:14	127:30	126:07	125:04	124:01	122:28	120:55	119:22	64:14	229				
230	65:35	129:08	127:45	126:42	125:39	123:66	121:33	120:00	65:35	230				
231	66:57	130:45	129:22	128:19	127:16	125:43	124:10	122:37	66:57	231				
232	68:17	132:23	131:00	129:57	128:54	127:21	125:48	124:15	68:17	232				
233	69:37	134:00	132:37	131:34	130:31	128:58	127:25	125:52	69:37	233				
234	70:55	135:38	134:15	133:12	132:09	130:36	129:03	127:30	70:55	234				
235	72:13	137:15	135:52	134:49	133:46	132:13	130:40	129:07	72:13	235				
236	73:29	138:53	137:30	136:27	135:24	133:51	132:18	130:45	73:29	236				
237	74:43	140:30	139:07	138:04	137:01	135:28	133:55	132:22	74:43	237				
238	75:54	142:08	140:35	139:32	138:29	136:56	135:23	133:50	75:54	238				
239	77:03	143:45	142:02	140:59	139:56	138:23	136:50	135:17	77:03	239				
240	78:08	145:23	143:40	142:37	141:34	139:61	138:28	136:54	78:08	240				
241	79:08	147:00	145:17	144:14	143:11	141:38	140:05	138:32	79:08	241				
242	80:02	148:38	146:51	145:48	144:45	143:12	141:39	140:06	80:02	242				
243	80:47	150:15	148:28	147:25	146:22	144:49	143:16	141:43	80:47	243				
244	81:22	151:53	149:55	148:52	147:49	146:26	144:53	143:20	81:22	244				
245	81:44	153:30	151:32	150:29	149:26	148:03	146:30	144:57	81:44	245				

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ROW	LATITUDE	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	ROW
---	-----	---	---	---	---	---	---	---	---	---	-----	---
		PATH: 015		016		017		018		019	020	021
246	81:51	- 14:46	- 16:19	- 17:52	- 19:24	- 20:57	- 22:30	- 24:03				
247	81:44	- 24:57	- 26:29	- 28:02	- 29:35	- 31:08	- 32:40	- 34:13				246
248	81:22	- 34:33	- 36:05	- 37:38	- 39:11	- 40:44	- 42:16	- 43:49				247
												248

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
001	80147	29116										023	30149	001
002	80102	36145										024	32121	002
003	79108	43108										025	33154	003
004	78108	48131										026	35127	004
005	77103	53103										027	36159	005
006	75154	56154										028	38132	006
007	74143	60111										029	40120	007
008	73129	63101										030	41146	008
009	72113	65128										031	43111	009
010	69137	67137										032	44137	010
011	68117	69131										033	46102	011
012	66157	71112										034	48152	012
013	65135	72143										035	50117	013
014	64114	74105										036	51142	014
015	62151	75119										037	53106	015
016	61129	76127										038	54131	016
017	60106	77129										039	55155	017
018	58142	78127										040	56126	018
019	57119	79120										041	58142	019
020	55155	80110										042	59137	020
021	54131	81133										043	60106	021
022	53106	82122										044	61129	022
023	51142	83138										045	62151	023
024	50117	84113										046	63101	024
025	48152	85119										047	64114	025
026	47127	86120										048	65135	026
027	46102	87123										049	66157	027
028	44137	88121										050	68117	028
029	43111	89123										051	69137	029
030	41146	90126										052	70155	030
031	40120	91119										053	72113	031
032	38154	92104										054	73129	032
033	36101	93137										055	74143	033
034	34137	94101										056	75154	034
035	32111	95109										057	76127	035
036	30118	96133										058	77103	036
037	28152	97130										059	78108	037
038	26100	98148										060	79108	038
039	24133	99159										061	80126	039
040	23107	100101										062	81154	040
041	21140	101133										063	82126	041
042	20114	102144										064	83102	042
043	18147	103153										065	84116	043
044	17121	104161										066	85131	044
045	15154	105168										067	86144	045
046												068	87158	046
047												069	88156	047
048												070	89126	048
049												071	90159	049

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ROW	LATITUDE	PATH	022	L	O	M	G	I	T	U	D	E	(DEGREES/MINUTES)	027	028	LATITUDE	ROW
050	14127	-93156	-95129	-97101	-98134	-100107	-101140	-103112	-104128	-106101	-107127	-108112	-109105	14127	050		
051	13101	-94115	-96107	-97121	-98153	-100126	-101159	-103131	-104145	-106119	-107145	-108132	-109125	13101	051		
052	11134	-94134	-96107	-97121	-98153	-100126	-101159	-103131	-104145	-106119	-107145	-108132	-109125	11134	052		
053	10107	-94153	-96126	-97158	-98131	-101104	-102137	-104109	-105137	-107114	-108141	-109154	-110107	10107	053		
054	8141	-95112	-97144	-98117	-99150	-101123	-102155	-104128	-105154	-107101	-108127	-109154	-110107	8141	054		
055	7114	-95130	-97103	-98136	-100109	-101141	-102173	-104146	-105160	-107119	-108145	-109172	-110125	7114	055		
056	5147	-95149	-97122	-98154	-100127	-101159	-102191	-104164	-105178	-107127	-108153	-109180	-110133	5147	056		
057	4120	-96108	-97140	-98113	-100146	-101178	-102191	-104164	-105178	-107127	-108153	-109180	-110133	4120	057		
058	2154	-96126	-97159	-98132	-100164	-101196	-102191	-104164	-105178	-107127	-108153	-109180	-110133	2154	058		
059	1127	-96144	-98117	-99150	-101123	-102155	-104128	-105154	-107101	-108127	-109154	-110133	-111000	1127	059		
060	0100	-97103	-98135	-100108	-101141	-102173	-104146	-105160	-107119	-108145	-109172	-110133	-111000	0100	060		
061	-1127	-97121	-98154	-100127	-101159	-102191	-104164	-105178	-107127	-108153	-109180	-110133	-111000	-1127	061		
062	-2154	-97140	-98112	-100145	-101178	-102191	-104164	-105178	-107127	-108153	-109180	-110133	-111000	-2154	062		
063	-3120	-97158	-98131	-100163	-101196	-102191	-104164	-105178	-107127	-108153	-109180	-110133	-111000	-3120	063		
064	-4147	-98117	-99149	-101122	-102155	-104128	-105154	-107101	-108127	-109154	-110133	-111000	-111000	-4147	064		
065	-7114	-98135	-100108	-101141	-102173	-104146	-105160	-107119	-108145	-109172	-110133	-111000	-111000	-7114	065		
066	-8141	-98154	-100126	-101159	-102191	-104164	-105178	-107127	-108153	-109180	-110133	-111000	-111000	-8141	066		
067	-10107	-99113	-101104	-102137	-103169	-104192	-105192	-106192	-107192	-108192	-109192	-110192	-111092	-10107	067		
068	-11134	-99131	-101104	-102137	-103169	-104192	-105192	-106192	-107192	-108192	-109192	-110192	-111092	-11134	068		
069	-13101	-99150	-101123	-102155	-104128	-105154	-107101	-108127	-109154	-110133	-111000	-111000	-111000	-13101	069		
070	-14127	-100109	-101141	-102173	-104146	-105160	-107119	-108145	-109172	-110133	-111000	-111000	-111000	-14127	070		
071	-15154	-100129	-102101	-103134	-104157	-105180	-106192	-107192	-108192	-109192	-110192	-111092	-111092	-15154	071		
072	-17121	-100148	-102121	-103154	-104177	-105192	-106192	-107192	-108192	-109192	-110192	-111092	-111092	-17121	072		
073	-18147	-101108	-102141	-103174	-104197	-105210	-106210	-107210	-108210	-109210	-110210	-111020	-111020	-18147	073		
074	-20114	-101128	-103101	-104133	-105156	-106179	-107192	-108192	-109192	-110192	-111092	-111092	-111092	-20114	074		
075	-21140	-101148	-103121	-104154	-105177	-106192	-107192	-108192	-109192	-110192	-111092	-111092	-111092	-21140	075		
076	-23109	-102109	-103142	-104175	-105198	-106211	-107211	-108211	-109211	-110211	-111021	-111021	-111021	-23109	076		
077	-24133	-102129	-104102	-105135	-106158	-107171	-108192	-109192	-110192	-111092	-111092	-111092	-111092	-24133	077		
078	-26100	-102151	-104124	-105157	-106180	-107193	-108193	-109193	-110193	-111093	-111093	-111093	-111093	-26100	078		
079	-27126	-103112	-104145	-105178	-106201	-107214	-108214	-109214	-110214	-111024	-111024	-111024	-111024	-27126	079		
080	-28152	-103134	-105107	-106140	-107163	-108176	-109176	-110176	-111076	-111083	-111083	-111083	-111083	-28152	080		
081	-30118	-103156	-105129	-106162	-107185	-108198	-109198	-110198	-111098	-111105	-111105	-111105	-111105	-30118	081		
082	-31145	-104119	-105152	-106175	-107198	-108211	-109211	-110211	-111021	-111028	-111028	-111028	-111028	-31145	082		
083	-33111	-104143	-105176	-106200	-107223	-108236	-109236	-110236	-111046	-111053	-111053	-111053	-111053	-33111	083		
084	-34137	-104165	-105198	-106222	-107245	-108258	-109258	-110258	-111068	-111075	-111075	-111075	-111075	-34137	084		
085	-36103	-105131	-106164	-107187	-108210	-109223	-110223	-111023	-111030	-111037	-111037	-111037	-111037	-36103	085		
086	-37129	-105156	-106189	-107212	-108235	-109248	-110248	-111048	-111055	-111062	-111062	-111062	-111062	-37129	086		
087	-38154	-106122	-107155	-108178	-109201	-110214	-111014	-111021	-111028	-111035	-111035	-111035	-111035	-38154	087		
088	-40120	-106149	-107182	-108205	-109218	-110231	-111031	-111038	-111045	-111052	-111052	-111052	-111052	-40120	088		
089	-41146	-107117	-108150	-109173	-110186	-111000	-111007	-111014	-111021	-111028	-111028	-111028	-111028	-41146	089		
090	-43111	-107145	-108178	-109201	-110214	-111014	-111021	-111028	-111035	-111042	-111042	-111042	-111042	-43111	090		
091	-44137	-108115	-109148	-110171	-111000	-111007	-111014	-111021	-111028	-111035	-111035	-111035	-111035	-44137	091		
092	-46102	-108146	-109179	-110202	-111015	-111022	-111029	-111036	-111043	-111050	-111050	-111050	-111050	-46102	092		
093	-47127	-109118	-110151	-111174	-112197	-113220	-114220	-115220	-116220	-117220	-118220	-119220	-120220	-47127	093		
094	-48152	-109149	-110182	-111205	-112228	-113251	-114251	-115251	-116251	-117251	-118251	-119251	-120251	-48152	094		
095	-50117	-110127	-111160	-112183	-113206	-114229	-115229	-116229	-117229	-118229	-119229	-120229	-121229	-50117	095		
096	-51142	-111105	-112138	-113161	-114184	-115207	-116207	-117207	-118207	-119207	-120207	-121207	-122207	-51142	096		
097	-53106	-111144	-112177	-113200	-114223	-115246	-116246	-117246	-118246	-119246	-120246	-121246	-122246	-53106	097		
098	-54131	-112125	-113158	-114181	-115204	-116227	-117227	-118227	-119227	-120227	-121227	-122227	-123227	-54131	098		

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	026	027	028	LATITUDE	ROW
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100	-57:19	-113:55	-1:43:1	-11:01:4	-117:47	-119:20	-120:52	-120:52	-120:52	-120:52	-120:52	-120:52	-119:20	-120:52	-120:52	-57:19	100
101	-58:42	-114:45	-1:43:1	-11:01:4	-117:47	-119:20	-120:52	-120:52	-120:52	-120:52	-120:52	-120:52	-119:20	-120:52	-120:52	-58:42	101
102	-60:06	-115:39	-1:43:1	-11:01:4	-117:47	-119:20	-120:52	-120:52	-120:52	-120:52	-120:52	-120:52	-119:20	-120:52	-120:52	-60:06	102
103	-61:29	-116:36	-1:43:1	-11:01:4	-117:47	-119:20	-120:52	-120:52	-120:52	-120:52	-120:52	-120:52	-119:20	-120:52	-120:52	-61:29	103
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ROW	LATITUDE	PATH:	L	U	N	G	I	T	U	D	E	(DEGREES:MINUTES)	026	027	028	LATITUDE	ROW
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149	-50:17	84:00	82:28		80:55			79:22		77:49		76:17	74:44			-50:17	149
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151	-47:27	82:51	81:19		79:46			78:13		76:40		75:08	73:35			-47:27	151
152	-46:02	82:19	80:46		79:14			77:41		76:08		74:35	73:03			-46:02	152
153	-44:37	81:48	80:15		78:43			77:10		75:37		74:05	72:32			-44:37	153
154	-43:11	81:18	79:46		78:13			76:40		75:07		73:35	72:02			-43:11	154
155	-41:46	80:50	79:17		77:44			76:11		74:39		73:06	71:33			-41:46	155
156	-40:20	80:22	78:49		77:16			75:44		74:11		72:38	71:06			-40:20	156
157	-38:54	79:55	78:22		76:50			75:17		73:44		72:12	70:39			-38:54	157
158	-37:29	79:29	77:56		76:24			74:51		73:18		71:46	70:13			-37:29	158
159	-36:03	79:04	77:31		75:58			74:26		72:53		71:20	69:48			-36:03	159
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184	0:00	70:36	69:03		67:30			65:57		64:25		62:52	61:19			0:00	184
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195	15:54	67:10	65:37		64:04			62:31		60:59		59:26	57:53			15:54	195
196	17:21	66:50	65:17		63:45			62:12		60:39		59:07	57:34			17:21	196

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198	20:14	66:10	64:38	63:05	61:32	60:00	58:27	56:54	55:21	53:48	52:15	50:42	20:14	198
199	21:40	65:50	64:18	62:45	61:12	59:39	58:07	56:34	55:01	53:28	51:55	50:22	21:40	199
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202	26:00	64:48	63:15	61:42	60:10	58:37	57:04	55:32	54:00	52:27	50:54	49:21	26:00	202
203	27:26	64:26	62:54	61:21	59:48	58:15	56:43	55:10	53:37	52:04	50:31	48:58	27:26	203
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210	37:29	61:42	60:09	58:37	57:04	55:31	53:58	52:25	50:52	49:19	47:46	46:13	37:29	210
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			022		023		024		025		026	027		028
246	81:51	- 25:35	- 27:08	- 28:41	- 30:13	- 31:46	- 33:19	- 34:51					81:51	246
247	81:44	- 35:46	- 37:18	- 38:51	- 40:24	- 41:57	- 43:29	- 45:02					81:44	247
248	81:22	- 45:22	- 46:54	- 48:27	- 50:00	- 51:32	- 53:05	- 54:38					81:22	248

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PATH/ROW TO LATITUDE/LONGITUDE
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ROW	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
	PAT 12	029	030	031	032	033	034	035				
001	- 40:05	- 41:37	- 43:10	- 44:43	- 46:16	- 47:48	- 49:21	- 50:54	- 52:27	- 54:00	80:47	001
002	- 47:34	- 49:07	- 50:39	- 52:12	- 53:45	- 55:18	- 56:50	- 58:23	- 59:56	- 61:29	80:02	002
003	- 53:57	- 55:29	- 57:02	- 58:35	- 60:07	- 61:40	- 63:13	- 64:46	- 66:19	- 67:52	79:08	003
004	- 59:20	- 60:52	- 62:25	- 63:58	- 65:30	- 67:03	- 68:36	- 70:09	- 71:42	- 73:15	78:08	004
005	- 63:52	- 65:25	- 66:57	- 68:30	- 69:59	- 71:29	- 72:58	- 74:27	- 75:56	- 77:25	77:03	005
006	- 69:16	- 70:48	- 72:21	- 73:54	- 75:27	- 76:59	- 78:32	- 79:59	- 81:26	- 82:53	75:54	006
007	- 71:00	- 72:33	- 74:06	- 75:38	- 77:11	- 78:44	- 80:16	- 81:49	- 83:22	- 84:55	74:43	007
008	- 73:50	- 75:22	- 76:55	- 78:28	- 79:59	- 81:31	- 83:03	- 84:36	- 86:08	- 87:41	73:29	008
009	- 76:17	- 77:50	- 79:22	- 80:55	- 82:28	- 84:01	- 85:34	- 87:07	- 88:40	- 90:13	72:13	009
010	- 78:26	- 79:59	- 81:31	- 83:04	- 84:37	- 86:09	- 87:42	- 89:15	- 90:48	- 92:21	70:55	010
011	- 80:20	- 81:52	- 83:25	- 84:58	- 86:30	- 88:03	- 89:36	- 91:09	- 92:42	- 94:15	69:37	011
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013	- 83:42	- 85:15	- 86:47	- 88:20	- 89:53	- 91:26	- 92:59	- 94:32	- 96:05	- 97:38	66:57	013
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015	- 86:08	- 87:41	- 89:14	- 90:47	- 92:20	- 93:53	- 95:26	- 96:59	- 98:32	- 99:59	64:14	015
016	- 88:16	- 89:51	- 91:24	- 92:57	- 94:30	- 96:03	- 97:36	- 99:09	- 100:42	- 102:15	62:51	016
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ROW	LATITUDE	PATH:	029	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	034	035	LATITUDE	ROW
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051	13:01	-105:04	-106:37	-108:10	-109:42	-111:15	-112:48	-114:20	-115:53	-117:26	-118:59	-120:32	-122:05	-123:38	-125:11	13:01	051
052	11:34	-105:23	-106:56	-108:29	-109:61	-111:34	-113:07	-114:40	-116:13	-117:46	-119:19	-120:52	-122:25	-123:58	-125:31	11:34	052
053	10:07	-105:42	-107:15	-108:47	-110:20	-111:53	-113:26	-115:00	-116:33	-118:06	-119:39	-121:12	-122:45	-124:18	-125:51	10:07	053
054	8:41	-106:01	-107:33	-109:06	-110:39	-112:12	-113:45	-115:18	-116:51	-118:24	-119:57	-121:30	-123:03	-124:36	-126:09	8:41	054
055	7:14	-106:19	-107:52	-109:25	-110:57	-112:30	-114:03	-115:36	-117:09	-118:42	-120:15	-121:48	-123:21	-124:54	-126:27	7:14	055
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097	-53:06	-122:33	-124:05	-125:38	-127:11	-128:44	-130:17	-131:50	-133:23	-134:56	-136:29	-138:02	-139:35	-141:08	-142:41	-53:06	097
098	-54:31	-123:14	-124:47	-126:19	-127:52	-129:25	-130:58	-132:31	-134:04	-135:37	-137:10	-138:43	-140:16	-141:49	-143:22	-54:31	098

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ROW	LATITUDE	PATH	L	O	N	<	I	T	U	E	(DEGREES/MINUTES)	LATITUDE	ROW
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100	-57:19	-124:44	-126:17	-127:50	-129:22	-130:55	-132:28	-133:50	-134:50	-135:50	-136:50	-57:19	100
101	-58:42	-125:34	-127:07	-128:40	-130:12	-131:45	-133:18	-134:41	-135:41	-136:41	-137:41	-58:42	101
102	-60:06	-126:28	-128:00	-129:33	-131:06	-132:38	-134:11	-135:44	-136:44	-137:44	-138:44	-60:06	102
103	-61:29	-127:25	-128:58	-130:31	-132:03	-133:36	-135:09	-136:41	-137:41	-138:41	-139:41	-61:29	103
104	-62:51	-128:28	-130:00	-131:33	-133:06	-134:38	-136:11	-137:44	-138:44	-139:44	-140:44	-62:51	104
105	-64:14	-129:36	-131:08	-132:41	-134:14	-135:46	-137:19	-138:52	-140:24	-141:56	-143:28	-64:14	105
106	-65:35	-130:50	-132:23	-133:55	-135:28	-137:01	-138:33	-140:06	-141:38	-143:10	-144:43	-65:35	106
107	-66:57	-132:12	-133:45	-135:17	-136:50	-138:23	-139:55	-141:28	-143:00	-144:33	-146:05	-66:57	107
108	-68:17	-133:43	-135:15	-136:48	-138:21	-139:53	-141:26	-143:00	-144:33	-146:05	-147:38	-68:17	108
109	-69:37	-135:24	-136:56	-138:29	-140:02	-141:35	-143:07	-144:40	-146:13	-147:46	-149:19	-69:37	109
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117	-79:08	-161:47	-163:20	-164:52	-166:25	-167:58	-169:30	-171:03	-172:36	-174:09	-175:42	-79:08	117
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146	-53:06	-47:34	-49:07	-50:40	-52:13	-53:46	-55:19	-56:52	-58:25	-59:58	-61:31	-53:06	146
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149	-50:17	73:11	71:39	70:06	68:33	67:00	65:28	63:55	62:22	60:50	59:17	57:44	56:11	54:38	53:05	-50:17	149
150	-48:52	72:36	71:03	69:30	67:57	66:24	64:51	63:18	61:45	60:12	58:39	57:06	55:33	54:00	52:27	-48:52	150
151	-47:27	71:51	70:18	68:45	67:12	65:39	64:06	62:33	61:00	59:27	57:54	56:21	54:48	53:15	51:42	-47:27	151
152	-46:02	71:10	69:37	68:04	66:31	64:58	63:25	61:52	60:19	58:46	57:13	55:40	54:07	52:34	51:01	-46:02	152
153	-44:37	70:29	68:56	67:23	65:50	64:17	62:44	61:11	59:38	58:05	56:32	54:59	53:26	51:53	50:20	-44:37	153
154	-43:11	69:48	68:15	66:42	65:09	63:36	62:03	60:30	58:57	57:24	55:51	54:18	52:45	51:12	49:39	-43:11	154
155	-41:46	68:06	66:33	64:60	62:87	61:14	59:41	58:08	56:35	55:02	53:29	51:56	50:23	48:50	47:17	-41:46	155
156	-40:20	66:24	64:51	63:18	61:45	60:12	58:39	57:06	55:33	54:00	52:27	50:54	49:21	47:48	46:15	-40:20	156
157	-38:54	64:42	63:09	61:36	59:63	58:00	56:27	54:54	53:21	51:48	50:15	48:42	47:09	45:36	44:03	-38:54	157
158	-37:29	63:06	61:33	59:60	57:87	56:14	54:41	53:08	51:35	49:62	47:89	46:16	44:43	43:10	41:37	-37:29	158
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191	10:07	5:38	4:45	3:12	1:39	0:06	-0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	10:07	191
192	11:34	3:56	3:03	1:30	0:07	-0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	11:34	192
193	13:01	2:14	1:21	-0:00	-0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	13:01	193
194	14:27	0:32	-0:00	-0:00	-0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	14:27	194
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198	20:14	55:22		53:49		52:16		50:43		49:11		47:38	46:05	198
199	21:40	55:01		53:29		51:56		50:23		48:50		47:18	45:45	199
200	23:07	54:41		53:08		51:35		50:03		48:30		46:57	45:25	200
201	24:33	54:20		52:47		51:15		49:42		48:09		46:36	45:04	201
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203	27:26	53:37		52:05		50:32		48:59		47:27		45:54	44:21	203
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205	30:18	52:53		51:20		49:48		48:15		46:42		45:10	43:37	205
206	31:45	52:30		50:58		49:25		47:52		46:19		44:47	43:14	206
207	33:11	52:07		50:34		49:01		47:29		45:56		44:23	42:51	207
208	34:37	51:43		50:10		48:38		47:05		45:32		43:59	42:27	208
209	36:03	51:18		49:46		48:13		46:40		45:08		43:35	42:02	209
210	37:29	50:53		49:20		47:48		46:15		44:42		43:10	41:37	210
211	38:54	50:27		48:54		47:22		45:49		44:16		42:44	41:11	211
212	40:20	50:00		48:28		46:55		45:22		43:50		42:17	40:44	212
213	41:46	49:33		48:00		46:27		44:55		43:22		41:49	40:16	213
214	43:11	49:04		47:31		45:59		44:26		42:53		41:20	39:48	214
215	44:37	48:34		47:02		45:29		43:56		42:23		40:51	39:18	215
216	46:02	48:03		46:31		44:58		43:25		41:52		40:20	38:47	216
217	47:27	47:31		45:58		44:26		42:53		41:20		39:48	38:15	217
218	48:52	46:57		45:12		43:41		42:19		40:47		39:14	37:41	218
219	50:17	46:22		44:39		43:17		41:44		40:11		38:39	37:06	219
220	51:42	45:45		44:12		42:40		41:07		39:34		38:01	36:29	220
221	53:06	45:06		43:33		42:00		40:28		38:55		37:22	35:50	221
222	54:31	44:25		42:52		41:19		39:46		38:14		36:41	35:08	222
223	55:55	43:41		42:08		40:35		39:03		37:30		35:57	34:25	223
224	57:19	42:54		41:21		39:49		38:16		36:43		35:11	33:38	224
225	58:42	42:04		40:32		38:59		37:26		35:53		34:21	32:48	225
226	60:06	41:11		39:18		38:05		36:33		35:00		33:27	31:55	226
227	61:29	40:13		38:40		37:08		35:35		34:02		32:30	30:57	227
228	62:51	39:11		37:38		36:05		34:33		33:00		31:27	29:55	228
229	64:14	38:03		36:30		34:57		33:25		31:52		30:19	28:47	229
230	65:35	36:48		35:16		33:43		32:10		30:38		29:05	27:32	230
231	66:57	35:27		33:54		32:21		30:48		29:16		27:43	26:10	231
232	68:17	33:56		32:23		30:50		29:18		27:45		26:12	24:40	232
233	69:37	32:15		30:42		28:59		27:37		26:04		24:31	22:58	233
234	70:55	30:21		28:48		27:15		25:43		24:10		22:37	21:05	234
235	72:13	28:12		26:39		25:07		23:34		22:01		20:28	18:56	235
236	73:29	25:45		24:12		22:39		21:07		19:34		18:01	16:28	236
237	74:43	22:55		21:22		19:50		18:17		16:44		15:12	13:39	237
238	75:54	19:38		18:05		16:33		15:00		13:27		11:54	10:22	238
239	77:03	15:47		14:14		12:42		11:09		9:36		8:03	6:31	239
240	78:08	11:14		9:42		8:09		6:36		5:04		3:31	1:58	240
241	79:08	5:52		4:19		2:46		1:13		0:19		0:15	0:15	241
242	80:02	0:31		2:04		3:36		5:09		6:42		8:14	9:47	242
243	80:47	8:00		9:33		11:06		12:38		14:11		15:44	17:17	243
244	81:22	16:38		18:10		19:43		21:16		22:49		24:21	25:54	244
245	81:44	26:14		27:46		29:19		30:52		32:25		33:57	35:30	245

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ROW	LATITUDE	PATH	L	U	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
246	81:51	- 36:24	- 37:57	- 39:30	- 41:02	- 42:35	- 44:08	- 45:40	- 47:13	- 48:45	- 50:18	- 51:51	81:51	246
247	81:44	- 46:35	- 48:07	- 49:40	- 51:13	- 52:45	- 54:18	- 55:51	- 57:24	- 58:56	- 60:29	- 62:02	81:44	247
248	81:22	- 56:11	- 57:43	- 59:16	- 60:49	- 62:21	- 63:54	- 65:27	- 66:59	- 68:32	- 69:54	- 71:27	81:22	248

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ROW	LATITUDE	PATH#	L	U	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
---	----	----	---	---	---	---	---	---	---	---	---	----	----	---
001	80:47	50:54	52:26	53:59	55:32	57:05	58:37	60:10	61:43	63:16	64:49	66:22	67:55	001
002	80:02	58:23	59:56	61:28	63:01	64:34	66:07	67:40	69:13	70:46	72:19	73:52	75:25	002
003	79:08	64:46	66:18	67:51	69:24	70:56	72:29	74:02	75:35	77:08	78:41	80:14	81:47	003
004	78:08	70:08	71:41	73:14	74:47	76:19	77:52	79:25	80:58	82:31	84:04	85:37	87:10	004
005	77:03	74:41	76:14	77:46	79:19	80:52	82:24	83:57	85:30	87:03	88:36	90:09	91:42	005
006	75:54	78:32	80:05	81:37	83:10	84:43	86:15	87:48	89:21	90:54	92:27	94:00	95:33	006
007	74:43	81:49	83:22	84:54	86:27	88:00	89:33	91:06	92:39	94:12	95:45	97:18	98:51	007
008	73:29	84:39	86:11	87:44	89:17	90:50	92:23	93:56	95:29	97:02	98:35	100:08	101:41	008
009	72:13	87:06	88:39	90:11	91:44	93:17	94:50	96:23	97:56	99:29	101:02	102:35	104:08	009
010	70:55	89:15	90:48	92:20	93:53	95:26	96:59	98:32	100:05	101:38	103:11	104:44	106:17	010
011	69:37	91:09	92:41	94:14	95:47	97:20	98:53	100:26	101:59	103:32	105:05	106:38	108:11	011
012	68:17	92:50	94:23	95:55	97:28	99:01	100:34	102:07	103:40	105:13	106:46	108:19	109:52	012
013	66:57	94:21	95:53	97:26	98:59	100:32	102:05	103:38	105:11	106:44	108:17	109:50	111:23	013
014	65:35	95:42	97:15	98:48	100:21	101:54	103:27	105:00	106:33	108:06	109:39	111:12	112:45	014
015	64:14	96:57	98:29	100:02	101:35	103:08	104:41	106:14	107:47	109:20	110:53	112:26	113:59	015
016	62:51	98:05	99:37	101:10	102:43	104:16	105:49	107:22	108:55	110:28	112:01	113:34	115:07	016
017	61:29	99:07	100:40	102:13	103:46	105:19	106:52	108:25	109:58	111:31	113:04	114:37	116:10	017
018	60:06	100:05	101:38	103:11	104:44	106:17	107:50	109:23	110:56	112:29	114:02	115:35	117:08	018
019	58:42	101:58	103:31	105:04	106:37	108:10	109:43	111:16	112:49	114:22	115:55	117:28	119:01	019
020	57:19	103:48	105:21	106:54	108:27	109:60	111:33	113:06	114:39	116:12	117:45	119:18	120:51	020
021	55:55	105:41	107:14	108:47	110:20	111:53	113:26	115:00	116:33	118:06	119:39	121:12	122:45	021
022	54:31	107:19	108:52	110:25	111:58	113:31	115:04	116:37	118:10	119:43	121:16	122:49	124:22	022
023	53:06	108:00	109:33	111:06	112:39	114:12	115:45	117:18	118:51	120:24	121:57	123:30	125:03	023
024	51:42	109:39	111:12	112:45	114:18	115:51	117:24	118:57	120:30	122:03	123:36	125:09	126:42	024
025	50:17	110:54	112:27	114:00	115:33	117:06	118:39	120:12	121:45	123:18	124:51	126:24	127:57	025
026	48:52	112:10	113:43	115:16	116:49	118:22	119:55	121:28	123:01	124:34	126:07	127:40	129:13	026
027	47:27	113:45	115:18	116:51	118:24	119:57	121:30	123:03	124:36	126:09	127:42	129:15	130:48	027
028	46:02	115:28	117:01	118:34	120:07	121:40	123:13	124:46	126:19	127:52	129:25	130:58	132:31	028
029	44:37	117:11	118:44	120:17	121:50	123:23	124:56	126:29	128:02	129:35	131:08	132:41	134:14	029
030	43:11	118:54	120:27	122:00	123:33	125:06	126:39	128:12	129:45	131:18	132:51	134:24	135:57	030
031	41:46	120:37	122:10	123:43	125:16	126:49	128:22	129:55	131:28	133:01	134:34	136:07	137:40	031
032	40:20	122:20	123:53	125:26	126:59	128:32	130:05	131:38	133:11	134:44	136:17	137:50	139:23	032
033	38:54	124:03	125:36	127:09	128:42	130:15	131:48	133:21	134:54	136:27	138:00	139:33	141:06	033
034	37:29	125:46	127:19	128:52	130:25	131:58	133:31	135:04	136:37	138:10	139:43	141:16	142:49	034
035	36:03	127:29	129:02	130:35	132:08	133:41	135:14	136:47	138:20	139:53	141:26	142:59	144:32	035
036	34:37	129:12	130:45	132:18	133:51	135:24	136:57	138:30	140:03	141:36	143:09	144:42	146:15	036
037	33:11	130:55	132:28	134:01	135:34	137:07	138:40	140:13	141:46	143:19	144:52	146:25	147:58	037
038	31:45	132:38	134:11	135:44	137:17	138:50	140:23	141:56	143:29	145:02	146:35	148:08	149:41	038
039	30:18	134:21	135:54	137:27	139:00	140:33	142:06	143:39	145:12	146:45	148:18	149:51	151:24	039
040	28:52	136:04	137:37	139:10	140:43	142:16	143:49	145:22	146:55	148:28	149:61	151:34	153:07	040
041	27:26	137:47	139:20	140:53	142:26	143:59	145:32	147:05	148:38	150:11	151:44	153:17	154:50	041
042	26:00	139:30	141:03	142:36	144:09	145:42	147:15	148:48	150:21	151:54	153:27	155:00	156:33	042
043	24:33	141:13	142:46	144:19	145:52	147:25	148:58	150:31	152:04	153:37	155:10	156:43	158:16	043
044	23:07	143:06	144:39	146:12	147:45	149:18	150:51	152:24	153:57	155:30	157:03	158:36	160:09	044
045	21:40	145:09	146:42	148:15	149:48	151:21	152:54	154:27	156:00	157:33	159:06	160:39	162:12	045
046	20:14	147:02	148:35	150:08	151:41	153:14	154:47	156:20	157:53	159:26	160:59	162:32	164:05	046
047	18:47	149:05	150:38	152:11	153:44	155:17	156:50	158:23	159:56	161:29	163:02	164:35	166:08	047
048	17:21	151:08	152:41	154:14	155:47	157:20	158:53	160:26	161:59	163:32	165:05	166:38	168:11	048
049	15:54	153:11	154:44	156:17	157:50	159:23	160:56	162:29	164:02	165:35	167:08	168:41	170:14	049

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ROW	LATITUDE	PATH:	036	037	038	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
050	14:27	-115:34	-117:07	-118:39	-120:12	-121:45	-123:17	-124:50				14:27	050
051	13:01	-115:53	-117:26	-118:58	-120:31	-122:04	-123:37	-125:09				13:01	051
052	11:34	-116:12	-117:45	-119:17	-120:50	-122:23	-123:56	-125:26				11:34	052
053	10:07	-116:31	-118:04	-119:36	-121:09	-122:42	-124:14	-125:47				10:07	053
054	8:41	-116:50	-118:22	-119:55	-121:28	-123:00	-124:33	-126:06				8:41	054
055	7:14	-117:08	-118:41	-120:14	-121:46	-123:19	-124:52	-126:25				7:14	055
056	5:47	-117:27	-119:00	-120:32	-122:05	-123:38	-125:10	-126:43				5:47	056
057	4:20	-117:45	-119:18	-120:51	-122:23	-123:56	-125:29	-127:02				4:20	057
058	2:54	-118:04	-119:37	-120:58	-122:42	-124:15	-125:47	-127:20				2:54	058
059	1:27	-118:22	-119:55	-121:28	-123:00	-124:33	-126:06	-127:38				1:27	059
060	0:00	-118:41	-120:13	-121:46	-123:19	-124:51	-126:24	-127:57				0:00	060
061	-1:27	-118:59	-120:32	-122:04	-123:37	-125:10	-126:43	-128:15				-1:27	061
062	-2:54	-119:17	-120:50	-122:23	-123:56	-125:28	-127:01	-128:34				-2:54	062
063	-4:20	-119:36	-121:09	-122:41	-124:14	-125:47	-127:19	-128:52				-4:20	063
064	-5:47	-119:54	-121:27	-123:00	-124:33	-126:06	-127:38	-129:11				-5:47	064
065	-7:14	-120:13	-121:46	-123:19	-124:51	-126:42	-128:15	-129:48				-7:14	065
066	-8:41	-120:32	-122:04	-123:37	-125:10	-127:01	-128:34	-130:07				-8:41	066
067	-10:07	-120:50	-122:23	-123:56	-125:28	-127:20	-128:53	-130:25				-10:07	067
068	-11:34	-121:09	-122:42	-124:15	-125:47	-127:39	-129:12	-130:44				-11:34	068
069	-13:01	-121:28	-123:01	-124:34	-126:06	-127:58	-129:31	-131:04				-13:01	069
070	-14:27	-121:47	-123:20	-124:53	-126:25	-128:17	-129:50	-131:23				-14:27	070
071	-15:54	-122:07	-123:39	-125:12	-126:45	-128:37	-130:10	-131:42				-15:54	071
072	-17:21	-122:26	-123:59	-125:32	-127:04	-128:37	-130:10	-131:42				-17:21	072
073	-18:47	-122:46	-124:19	-125:51	-127:24	-128:57	-130:29	-132:02				-18:47	073
074	-20:14	-123:06	-124:38	-126:11	-127:44	-129:17	-130:49	-132:22				-20:14	074
075	-21:40	-123:26	-124:59	-126:31	-128:04	-129:37	-131:10	-132:42				-21:40	075
076	-23:07	-123:46	-125:19	-126:52	-128:25	-129:57	-131:30	-133:03				-23:07	076
077	-24:33	-124:07	-125:40	-127:13	-128:45	-130:18	-131:51	-133:24				-24:33	077
078	-26:00	-124:28	-126:01	-127:34	-129:07	-130:39	-132:12	-133:45				-26:00	078
079	-27:26	-124:50	-126:23	-127:55	-129:28	-131:01	-132:33	-134:06				-27:26	079
080	-28:52	-125:12	-126:45	-128:17	-129:50	-131:23	-132:55	-134:28				-28:52	080
081	-30:18	-125:34	-127:07	-128:40	-130:12	-131:45	-133:18	-134:50				-30:18	081
082	-31:45	-125:57	-127:30	-129:02	-130:35	-132:08	-133:41	-135:13				-31:45	082
083	-33:11	-126:20	-127:53	-129:26	-130:59	-132:31	-134:04	-135:37				-33:11	083
084	-34:37	-126:44	-128:17	-129:50	-131:22	-132:55	-134:28	-136:03				-34:37	084
085	-36:03	-127:09	-128:42	-130:14	-131:47	-133:20	-134:52	-136:25				-36:03	085
086	-37:29	-127:34	-129:07	-130:40	-132:12	-133:45	-135:18	-136:50				-37:29	086
087	-38:54	-128:00	-129:33	-131:06	-132:38	-134:11	-135:44	-137:16				-38:54	087
088	-40:20	-128:27	-130:00	-131:32	-133:05	-134:38	-136:10	-137:43				-40:20	088
089	-41:46	-128:55	-130:27	-132:00	-133:33	-135:05	-136:38	-138:11				-41:46	089
090	-43:11	-129:23	-130:56	-132:29	-134:01	-135:34	-137:07	-138:40				-43:11	090
091	-44:37	-129:53	-131:26	-132:58	-134:31	-136:04	-137:37	-139:09				-44:37	091
092	-46:02	-130:24	-131:57	-133:29	-135:02	-136:35	-138:08	-139:40				-46:02	092
093	-47:27	-130:56	-132:29	-134:02	-135:34	-137:07	-138:40	-140:12				-47:27	093
094	-48:52	-131:30	-133:03	-134:35	-136:08	-137:41	-139:13	-140:46				-48:52	094
095	-50:17	-132:05	-133:38	-135:11	-136:43	-138:16	-139:49	-141:21				-50:17	095
096	-51:42	-132:42	-134:15	-135:48	-137:20	-138:53	-140:26	-141:59				-51:42	096
097	-53:06	-133:21	-134:54	-136:27	-138:00	-139:32	-141:05	-142:38				-53:06	097
098	-54:31	-134:03	-135:35	-137:08	-138:41	-140:14	-141:46	-143:19				-54:31	098

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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	Q01	Q02	LATITUDE	ROW
099	-55:55	-134:47	-136:19	-137:52	-139:25	-140:57	-142:30	-144:03	-145:36	-147:09	-148:42	-150:15	-151:48	-153:21	-55:55	099
100	-57:14	-135:33	-137:06	-138:39	-140:11	-141:44	-143:17	-144:49	-146:22	-147:55	-149:28	-151:01	-152:34	-154:07	-57:14	100
101	-58:42	-136:23	-137:56	-139:28	-141:01	-142:34	-144:07	-145:39	-147:12	-148:45	-150:18	-151:51	-153:24	-154:57	-58:42	101
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227	61:29	29:24	27:52	26:19	24:46	23:13	21:41	20:08	18:35	17:02	15:29	13:56	61:29	227
228	62:51	28:22	26:49	25:16	23:44	22:11	20:38	19:06	17:33	16:00	14:27	12:54	62:51	228
229	64:14	27:14	25:41	24:08	22:36	21:03	19:30	17:58	16:25	14:52	13:19	11:46	64:14	229
230	65:35	26:00	24:27	22:54	21:21	19:49	18:16	16:43	15:10	13:37	12:04	10:31	65:35	230
231	66:57	24:38	23:05	21:32	20:00	18:27	16:54	15:21	13:48	12:15	10:42	9:09	66:57	231
232	68:17	23:07	21:34	20:02	18:29	16:56	15:23	13:50	12:17	10:44	9:11	7:38	68:17	232
233	69:37	19:32	17:59	16:27	14:54	13:21	11:48	10:16	8:43	7:10	5:37	4:04	69:37	233
234	70:55	18:26	16:53	15:20	13:48	12:15	10:42	9:09	7:36	6:03	4:30	2:57	70:55	234
235	72:13	17:23	15:50	14:18	12:45	11:12	9:40	8:07	6:34	5:01	3:28	1:55	72:13	235
236	73:29	14:56	13:23	11:50	10:18	8:45	7:12	5:40	4:07	2:34	1:01	-	73:29	236
237	74:43	12:06	10:33	9:01	7:28	5:55	4:23	2:50	1:17	-	-	-	74:43	237
238	75:54	8:49	7:16	5:44	4:11	2:38	1:05	-	-	-	-	-	75:54	238
239	77:03	4:58	3:25	1:53	0:20	-	-	-	-	-	-	-	77:03	239
240	78:08	0:26	1:07	2:40	4:13	-	-	-	-	-	-	-	78:08	240
241	79:08	-	6:30	8:03	9:36	-	-	-	-	-	-	-	79:08	241
242	80:02	-	12:53	14:25	15:58	-	-	-	-	-	-	-	80:02	242
243	81:47	-	20:22	21:55	23:27	-	-	-	-	-	-	-	81:47	243
244	81:22	-	27:27	30:32	32:05	-	-	-	-	-	-	-	81:22	244
245	81:44	-	36:35	40:08	41:41	-	-	-	-	-	-	-	81:44	245

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 FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
			006		037		038		039		040			
246	81:51	- 47:13	- 48:46	- 50:18	- 51:51	- 53:24	- 54:57	- 56:29					81:51	246
247	81:44	- 57:24	- 58:56	- 60:29	- 62:02	- 63:34	- 65:07	- 66:40					81:44	247
248	81:22	- 66:59	- 68:32	- 70:05	- 71:38	- 73:10	- 74:43	- 76:16					81:22	248

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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
001	80:47	043	61:43	63:15	64:48	66:21	67:53	69:26	70:59	72:13	73:29	74:43	001	
002	80:02	69:12	70:45	72:17	73:50	75:23	76:55	78:28	79:58	81:28	82:55	84:14	002	
003	79:08	75:14	76:47	78:19	79:51	81:23	82:55	84:14	85:46	87:18	88:41	90:03	003	
004	78:08	80:57	82:30	84:03	85:35	87:08	88:41	90:13	91:45	93:17	94:49	96:21	004	
005	77:03	85:10	86:43	88:15	89:48	91:20	92:52	94:25	95:57	97:29	99:01	100:33	005	
006	75:54	89:12	90:45	92:17	93:50	95:22	96:54	98:27	99:59	101:31	103:03	104:35	006	
007	74:43	89:12	90:45	92:17	93:50	95:22	96:54	98:27	99:59	101:31	103:03	104:35	007	
008	73:29	93:28	95:01	96:33	98:05	99:37	101:09	102:41	104:13	105:45	107:17	108:49	008	
009	72:13	97:15	98:48	100:20	101:53	103:25	104:57	106:29	108:01	109:33	111:05	112:37	009	
010	70:55	100:04	101:36	103:08	104:40	106:12	107:44	109:16	110:48	112:20	113:52	115:24	010	
011	69:37	101:58	103:30	105:02	106:34	108:06	109:38	111:10	112:42	114:14	115:46	117:18	011	
012	68:17	103:49	105:21	106:53	108:25	109:57	111:29	113:01	114:33	116:05	117:37	119:09	012	
013	66:57	105:09	106:41	108:13	109:45	111:17	112:49	114:21	115:53	117:25	118:57	120:29	013	
014	65:35	106:31	108:03	109:35	111:07	112:39	114:11	115:43	117:15	118:47	120:19	121:51	014	
015	64:14	107:46	109:18	110:50	112:22	113:54	115:26	116:58	118:30	120:02	121:34	123:06	015	
016	62:51	109:56	111:28	113:00	114:32	116:04	117:36	119:08	120:40	122:12	123:44	125:16	016	
017	61:29	109:56	111:28	113:00	114:32	116:04	117:36	119:08	120:40	122:12	123:44	125:16	017	
018	60:06	110:54	112:26	114:00	115:32	116:64	117:96	119:28	120:60	121:92	123:24	124:56	018	
019	58:42	111:47	113:19	114:51	116:23	117:55	119:27	120:59	122:31	124:03	125:35	127:07	019	
020	57:19	113:13	114:45	116:17	117:49	119:21	120:53	122:25	123:57	125:29	127:01	128:33	020	
021	55:55	113:24	114:56	116:28	117:60	119:32	121:04	122:36	124:08	125:40	127:12	128:44	021	
022	54:31	114:07	115:39	117:11	118:43	120:15	121:47	123:19	124:51	126:23	127:55	129:27	022	
023	53:06	114:59	116:31	118:03	119:35	121:07	122:39	124:11	125:43	127:15	128:47	130:19	023	
024	51:42	115:28	116:59	118:31	119:63	121:35	123:07	124:39	126:11	127:43	129:15	130:47	024	
025	50:17	116:05	117:37	119:09	120:41	122:13	123:45	125:17	126:49	128:21	129:53	131:25	025	
026	48:52	116:40	118:13	119:45	121:17	122:49	124:21	125:53	127:25	128:57	130:29	132:01	026	
027	47:27	117:14	118:46	120:18	121:50	123:22	124:54	126:26	127:58	129:30	131:02	132:34	027	
028	46:02	117:46	119:18	120:50	122:22	123:54	125:26	126:58	128:30	130:02	131:34	133:06	028	
029	44:37	118:17	119:49	121:21	122:53	124:25	125:57	127:29	129:01	130:33	132:05	133:37	029	
030	43:11	118:47	120:19	121:51	123:23	124:55	126:27	127:59	129:31	131:03	132:35	134:07	030	
031	41:46	119:16	120:48	122:20	123:52	125:24	126:56	128:28	130:00	131:32	133:04	134:36	031	
032	40:20	119:43	121:16	122:48	124:20	125:52	127:24	128:56	130:28	132:00	133:32	135:04	032	
033	38:54	120:10	121:43	123:15	124:47	126:19	127:51	129:23	130:55	132:27	133:59	135:31	033	
034	37:29	120:36	121:09	122:41	124:13	125:45	127:17	128:89	130:21	131:53	133:25	134:57	034	
035	36:03	121:01	122:34	124:07	125:39	126:71	128:03	129:35	131:07	132:39	134:11	135:43	035	
036	34:37	121:26	122:59	124:31	126:03	127:35	129:07	130:39	132:11	133:43	135:15	136:47	036	
037	33:11	121:50	123:23	124:55	126:27	127:59	129:31	131:03	132:35	134:07	135:39	137:11	037	
038	31:45	122:13	123:46	125:19	126:51	128:23	129:55	131:27	132:59	134:31	136:03	137:35	038	
039	30:18	122:36	124:09	125:41	127:13	128:45	130:17	131:49	133:21	134:53	136:25	137:57	039	
040	28:52	122:58	124:31	126:04	127:36	129:08	130:40	132:12	133:44	135:16	136:48	138:20	040	
041	27:26	123:20	124:53	126:26	127:58	129:30	131:02	132:34	134:06	135:38	137:10	138:42	041	
042	26:00	123:42	125:15	126:47	128:19	129:51	131:23	132:55	134:27	135:59	137:31	139:03	042	
043	24:33	124:03	125:36	127:08	128:40	130:12	131:44	133:16	134:48	136:20	137:52	139:24	043	
044	23:07	124:24	125:56	127:29	129:01	130:33	132:05	133:37	135:09	136:41	138:13	139:45	044	
045	21:40	124:44	126:17	127:50	129:22	130:54	132:26	133:58	135:30	137:02	138:34	139:66	045	
046	20:14	125:04	126:37	128:10	129:43	131:15	132:47	134:19	135:51	137:23	138:55	140:27	046	
047	18:47	125:24	126:57	128:30	129:63	131:35	133:07	134:39	136:11	137:43	139:15	140:47	047	
048	17:21	125:44	127:17	128:49	130:22	131:55	133:27	134:59	136:31	138:03	139:35	141:07	048	
049	15:54	126:04	127:36	129:09	130:42	132:14	133:46	135:18	136:50	138:22	139:54	141:27	049	

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			043	044	045	046	047	048	049					
050	14:27	-126:23	-127:56	-129:28	-131:01	-132:34	-134:06	-135:39	14:27			050		
051	13:01	-126:42	-128:15	-129:47	-131:20	-132:53	-134:26	-135:58	13:01			051		
052	11:34	-127:01	-128:34	-130:06	-131:39	-133:12	-134:44	-136:17	11:34			052		
053	10:07	-127:10	-128:43	-130:15	-131:48	-133:21	-134:54	-136:26	10:07			053		
054	8:41	-127:39	-129:11	-130:44	-132:17	-133:49	-135:22	-136:55	8:41			054		
055	7:14	-127:57	-129:30	-131:03	-132:35	-134:08	-135:41	-137:13	7:14			055		
056	5:47	-128:16	-129:48	-131:21	-132:54	-134:27	-135:59	-137:32	5:47			056		
057	4:20	-128:34	-130:07	-131:40	-133:12	-134:45	-136:18	-137:51	4:20			057		
058	2:54	-128:53	-130:25	-131:58	-133:31	-135:04	-136:36	-138:09	2:54			058		
059	1:27	-129:11	-130:44	-132:17	-133:49	-135:22	-136:55	-138:27	1:27			059		
060	0:00	-129:30	-131:02	-132:35	-134:08	-135:40	-137:13	-138:46	0:00			060		
061	-1:27	-129:48	-131:21	-132:53	-134:26	-135:59	-137:32	-139:04	-1:27			061		
062	-2:54	-130:06	-131:39	-133:12	-134:45	-136:18	-137:51	-138:27	-2:54			062		
063	-4:20	-130:25	-131:58	-133:31	-135:04	-136:36	-138:09	-139:41	-4:20			063		
064	-5:47	-130:44	-132:16	-133:49	-135:22	-136:55	-138:27	-140:00	-5:47			064		
065	-7:14	-131:02	-132:35	-134:07	-135:40	-137:13	-138:46	-140:18	-7:14			065		
066	-8:41	-131:21	-132:53	-134:26	-135:59	-137:32	-139:04	-140:37	-8:41			066		
067	-10:07	-131:39	-133:12	-134:45	-136:18	-137:51	-138:27	-140:56	-10:07			067		
068	-11:34	-131:58	-133:31	-135:04	-136:36	-138:09	-139:42	-141:14	-11:34			068		
069	-13:01	-132:17	-133:49	-135:22	-136:55	-138:27	-139:06	-141:33	-13:01			069		
070	-14:27	-132:36	-134:09	-135:42	-137:14	-138:46	-139:26	-141:52	-14:27			070		
071	-15:54	-132:55	-134:28	-136:01	-137:34	-139:06	-140:39	-142:12	-15:54			071		
072	-17:21	-133:15	-134:48	-136:20	-137:53	-139:26	-140:59	-142:31	-17:21			072		
073	-18:47	-133:35	-135:07	-136:40	-138:13	-139:46	-141:18	-142:51	-18:47			073		
074	-20:14	-133:55	-135:27	-137:00	-138:33	-140:06	-141:38	-143:11	-20:14			074		
075	-21:40	-134:15	-135:48	-137:20	-138:53	-140:26	-141:58	-143:31	-21:40			075		
076	-23:07	-134:35	-136:08	-137:41	-139:14	-140:46	-142:19	-143:52	-23:07			076		
077	-24:33	-134:56	-136:29	-138:02	-139:34	-141:07	-142:40	-144:12	-24:33			077		
078	-26:00	-135:17	-136:50	-138:23	-139:55	-141:28	-142:59	-144:34	-26:00			078		
079	-27:26	-135:39	-137:12	-138:44	-140:17	-141:50	-143:22	-144:55	-27:26			079		
080	-28:52	-136:01	-137:33	-139:06	-140:39	-142:12	-143:44	-145:17	-28:52			080		
081	-30:18	-136:23	-137:56	-139:29	-141:01	-142:34	-144:07	-145:39	-30:18			081		
082	-31:45	-136:46	-138:19	-139:51	-141:22	-142:57	-144:29	-146:02	-31:45			082		
083	-33:11	-137:09	-138:42	-140:15	-141:47	-143:20	-145:11	-146:26	-33:11			083		
084	-34:37	-137:33	-139:06	-140:39	-142:11	-143:44	-145:17	-146:49	-34:37			084		
085	-35:03	-137:58	-139:31	-141:03	-142:36	-144:09	-145:41	-147:14	-35:03			085		
086	-36:29	-138:23	-139:56	-141:28	-143:01	-144:34	-146:07	-147:39	-36:29			086		
087	-37:55	-138:49	-140:16	-141:54	-143:27	-145:00	-146:33	-148:08	-37:55			087		
088	-39:20	-139:16	-140:49	-142:21	-143:54	-145:27	-146:59	-148:32	-39:20			088		
089	-40:46	-139:44	-141:16	-142:49	-144:22	-145:54	-147:27	-149:00	-40:46			089		
090	-42:11	-140:12	-141:45	-143:18	-144:50	-146:23	-147:56	-149:28	-42:11			090		
091	-43:37	-140:42	-142:15	-143:47	-145:20	-146:53	-148:26	-149:58	-43:37			091		
092	-44:63	-141:13	-142:46	-144:18	-145:51	-147:24	-148:56	-150:29	-44:63			092		
093	-45:89	-141:45	-143:18	-144:51	-146:24	-147:56	-149:29	-151:01	-45:89			093		
094	-47:15	-142:19	-143:52	-145:24	-146:57	-148:30	-150:02	-151:35	-47:15			094		
095	-48:42	-142:54	-144:27	-146:00	-147:32	-149:03	-150:38	-151:70	-48:42			095		
096	-50:08	-143:31	-145:04	-146:37	-148:09	-149:42	-151:15	-152:48	-50:08			096		
097	-51:34	-144:06	-145:39	-147:16	-149:48	-150:21	-151:54	-153:27	-51:34			097		
098	-53:01	-144:32	-146:04	-148:00	-150:10	-151:43	-153:16	-154:49	-53:01			098		

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099	-55:55	-145:35	-145:35	-145:35	-145:35	-145:35	-145:35	-145:35	-145:35	-145:35	-145:35	-145:35	-55:55	099
100	-57:19	-146:22	-146:22	-146:22	-146:22	-146:22	-146:22	-146:22	-146:22	-146:22	-146:22	-146:22	-57:19	100
101	-58:42	-147:12	-147:12	-147:12	-147:12	-147:12	-147:12	-147:12	-147:12	-147:12	-147:12	-147:12	-58:42	101
102	-60:06	-148:05	-148:05	-148:05	-148:05	-148:05	-148:05	-148:05	-148:05	-148:05	-148:05	-148:05	-60:06	102
103	-61:29	-149:03	-149:03	-149:03	-149:03	-149:03	-149:03	-149:03	-149:03	-149:03	-149:03	-149:03	-61:29	103
104	-62:51	-150:05	-150:05	-150:05	-150:05	-150:05	-150:05	-150:05	-150:05	-150:05	-150:05	-150:05	-62:51	104
105	-64:14	-151:13	-151:13	-151:13	-151:13	-151:13	-151:13	-151:13	-151:13	-151:13	-151:13	-151:13	-64:14	105
106	-65:35	-152:28	-152:28	-152:28	-152:28	-152:28	-152:28	-152:28	-152:28	-152:28	-152:28	-152:28	-65:35	106
107	-66:57	-153:50	-153:50	-153:50	-153:50	-153:50	-153:50	-153:50	-153:50	-153:50	-153:50	-153:50	-66:57	107
108	-68:17	-155:20	-155:20	-155:20	-155:20	-155:20	-155:20	-155:20	-155:20	-155:20	-155:20	-155:20	-68:17	108
109	-69:37	-157:02	-157:02	-157:02	-157:02	-157:02	-157:02	-157:02	-157:02	-157:02	-157:02	-157:02	-69:37	109
110	-70:55	-158:55	-158:55	-158:55	-158:55	-158:55	-158:55	-158:55	-158:55	-158:55	-158:55	-158:55	-70:55	110
111	-72:13	-161:04	-161:04	-161:04	-161:04	-161:04	-161:04	-161:04	-161:04	-161:04	-161:04	-161:04	-72:13	111
112	-73:29	-163:31	-163:31	-163:31	-163:31	-163:31	-163:31	-163:31	-163:31	-163:31	-163:31	-163:31	-73:29	112
113	-74:43	-166:121	-166:121	-166:121	-166:121	-166:121	-166:121	-166:121	-166:121	-166:121	-166:121	-166:121	-74:43	113
114	-75:54	-169:38	-169:38	-169:38	-169:38	-169:38	-169:38	-169:38	-169:38	-169:38	-169:38	-169:38	-75:54	114
115	-77:03	-173:29	-173:29	-173:29	-173:29	-173:29	-173:29	-173:29	-173:29	-173:29	-173:29	-173:29	-77:03	115
116	-78:08	-178:02	-178:02	-178:02	-178:02	-178:02	-178:02	-178:02	-178:02	-178:02	-178:02	-178:02	-78:08	116
117	-79:08	-176:35	-176:35	-176:35	-176:35	-176:35	-176:35	-176:35	-176:35	-176:35	-176:35	-176:35	-79:08	117
118	-80:02	-170:13	-170:13	-170:13	-170:13	-170:13	-170:13	-170:13	-170:13	-170:13	-170:13	-170:13	-80:02	118
119	-80:47	-162:43	-162:43	-162:43	-162:43	-162:43	-162:43	-162:43	-162:43	-162:43	-162:43	-162:43	-80:47	119
120	-81:22	-154:06	-154:06	-154:06	-154:06	-154:06	-154:06	-154:06	-154:06	-154:06	-154:06	-154:06	-81:22	120
121	-81:44	-144:30	-144:30	-144:30	-144:30	-144:30	-144:30	-144:30	-144:30	-144:30	-144:30	-144:30	-81:44	121
122	-81:51	-134:20	-134:20	-134:20	-134:20	-134:20	-134:20	-134:20	-134:20	-134:20	-134:20	-134:20	-81:51	122
123	-81:44	-124:09	-124:09	-124:09	-124:09	-124:09	-124:09	-124:09	-124:09	-124:09	-124:09	-124:09	-81:44	123
124	-81:22	-114:33	-114:33	-114:33	-114:33	-114:33	-114:33	-114:33	-114:33	-114:33	-114:33	-114:33	-81:22	124
125	-80:47	-105:56	-105:56	-105:56	-105:56	-105:56	-105:56	-105:56	-105:56	-105:56	-105:56	-105:56	-80:47	125
126	-80:02	-98:26	-98:26	-98:26	-98:26	-98:26	-98:26	-98:26	-98:26	-98:26	-98:26	-98:26	-80:02	126
127	-79:08	-92:04	-92:04	-92:04	-92:04	-92:04	-92:04	-92:04	-92:04	-92:04	-92:04	-92:04	-79:08	127
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130	-75:54	-78:18	-78:18	-78:18	-78:18	-78:18	-78:18	-78:18	-78:18	-78:18	-78:18	-78:18	-75:54	130
131	-74:43	-75:00	-75:00	-75:00	-75:00	-75:00	-75:00	-75:00	-75:00	-75:00	-75:00	-75:00	-74:43	131
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134	-70:55	-67:15	-67:15	-67:15	-67:15	-67:15	-67:15	-67:15	-67:15	-67:15	-67:15	-67:15	-70:55	134
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136	-68:17	-64:00	-64:00	-64:00	-64:00	-64:00	-64:00	-64:00	-64:00	-64:00	-64:00	-64:00	-68:17	136
137	-66:57	-62:29	-62:29	-62:29	-62:29	-62:29	-62:29	-62:29	-62:29	-62:29	-62:29	-62:29	-66:57	137
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142	-60:06	-56:45	-56:45	-56:45	-56:45	-56:45	-56:45	-56:45	-56:45	-56:45	-56:45	-56:45	-60:06	142
143	-58:42	-55:51	-55:51	-55:51	-55:51	-55:51	-55:51	-55:51	-55:51	-55:51	-55:51	-55:51	-58:42	143
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146	-54:31	-53:31	-53:31	-53:31	-53:31	-53:31	-53:31	-53:31	-53:31	-53:31	-53:31	-53:31	-54:31	146
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		043	044	045	046	047	048	049						
148	-51:42	52:11	50:38	49:05	47:32	46:00	44:27	42:54				-51:42	148	
149	-50:17	51:23	50:01	48:28	46:55	45:23	43:50	42:17				-50:17	149	
150	-48:52	50:58	49:25	47:53	46:20	44:47	43:15	41:42				-48:52	150	
151	-47:27	50:14	48:52	47:19	45:46	44:14	42:41	41:08				-47:27	151	
152	-46:02	49:52	48:19	46:47	45:14	43:41	42:09	40:36				-46:02	152	
153	-44:37	49:21	47:49	46:16	44:43	43:10	41:38	40:05				-44:37	153	
154	-43:11	48:51	47:19	45:46	44:13	42:41	41:08	39:35				-43:11	154	
155	-41:46	48:23	46:50	45:17	43:45	42:12	40:39	39:07				-41:46	155	
156	-40:20	47:55	46:22	44:50	43:17	41:44	40:12	38:39				-40:20	156	
157	-38:54	47:28	45:56	44:23	42:50	41:17	39:45	38:12				-38:54	157	
158	-37:29	47:02	45:30	43:57	42:24	40:52	39:19	37:46				-37:29	158	
159	-36:03	46:37	45:04	43:32	41:59	40:26	38:54	37:21				-36:03	159	
160	-34:37	46:13	44:40	43:07	41:34	40:02	38:29	36:56				-34:37	160	
161	-33:11	45:49	44:16	42:43	41:10	39:38	38:05	36:32				-33:11	161	
162	-31:45	45:25	43:53	42:20	40:47	39:14	37:42	36:09				-31:45	162	
163	-30:18	45:02	43:30	41:57	40:24	38:52	37:19	35:46				-30:18	163	
164	-28:52	44:40	43:07	41:35	40:02	38:29	36:56	35:24				-28:52	164	
165	-27:26	44:18	42:45	41:13	39:40	38:07	36:35	35:02				-27:26	165	
166	-26:00	43:57	42:24	40:51	39:18	37:46	36:13	34:40				-26:00	166	
167	-24:33	43:35	42:03	40:30	38:57	37:25	35:52	34:19				-24:33	167	
168	-23:07	43:15	41:42	40:09	38:37	37:04	35:31	33:58				-23:07	168	
169	-21:40	42:54	41:21	39:59	38:16	36:43	35:11	33:38				-21:40	169	
170	-20:14	42:34	41:01	39:29	37:56	36:23	34:50	33:18				-20:14	170	
171	-18:47	42:14	40:41	39:09	37:36	36:03	34:31	32:58				-18:47	171	
172	-17:21	41:54	40:22	38:59	37:16	35:43	34:11	32:38				-17:21	172	
173	-15:54	41:35	40:02	38:29	36:57	35:24	33:51	32:19				-15:54	173	
174	-14:27	41:16	39:43	38:10	36:37	35:05	33:33	31:59				-14:27	174	
175	-13:01	40:56	39:24	37:51	36:18	34:46	33:13	31:40				-13:01	175	
176	-11:34	40:37	39:05	37:32	35:59	34:27	32:54	31:21				-11:34	176	
177	-10:07	40:19	38:46	37:13	35:40	34:08	32:35	31:02				-10:07	177	
178	-8:41	40:00	38:27	36:54	35:22	33:49	32:16	30:44				-8:41	178	
179	-7:14	39:41	38:08	36:36	35:03	33:30	31:58	30:25				-7:14	179	
180	-5:47	39:23	37:50	36:17	34:44	33:12	31:39	29:66				-5:47	180	
181	-4:20	39:04	37:31	35:59	34:26	32:53	31:21	29:48				-4:20	181	
182	-2:54	38:46	37:13	35:40	34:08	32:35	31:02	29:29				-2:54	182	
183	-1:27	38:27	36:55	35:12	33:49	32:16	30:44	29:11				-1:27	183	
184	0:00	38:09	36:36	35:03	33:31	31:58	30:25	28:53				0:00	184	
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186	2:54	37:32	35:59	34:27	33:54	31:21	29:48	28:16				2:54	186	
187	4:20	37:14	35:41	34:09	33:35	31:03	29:30	27:57				4:20	187	
188	5:47	36:55	35:22	33:50	33:17	30:44	29:12	27:39				5:47	188	
189	7:14	36:36	35:04	33:31	31:58	30:26	28:53	27:20				7:14	189	
190	8:41	36:18	34:45	33:12	31:40	30:07	28:34	27:02				8:41	190	
191	10:07	35:59	34:26	32:54	31:21	29:48	28:16	26:43				10:07	191	
192	11:34	35:40	34:08	32:35	31:02	29:29	27:57	26:24				11:34	192	
193	13:01	35:21	33:49	32:16	30:43	29:10	27:38	26:05				13:01	193	
194	14:27	35:02	33:29	31:57	30:24	28:51	27:19	25:46				14:27	194	
195	15:54	34:43	33:10	31:37	30:05	28:32	26:59	25:27				15:54	195	
196	17:21	34:23	32:51	31:18	29:45	28:12	26:40	25:07				17:21	196	

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197	18147		34104	32131	30158	29125	27153	26120	24147					
198	20114		34144	32111	30138	29106	27133	26100	24127					
199	21140		33123	31151	30118	28145	27113	25140	24107					
200	23107		33107	31130	29158	28125	26152	25119	23147					
201	24133		32142	31109	29137	28104	26131	24159	23126					
202	26100		32121	30148	29116	27143	26110	24138	23105					
203	27126		32100	30127	28154	27121	25149	24116	23143					
204	28152		31138	30105	28132	26159	25127	23154	22121					
205	30118		31115	29143	28110	26137	25104	23132	22159					
206	31145		30152	29120	27147	26114	24142	23109	22136					
207	33111		30129	28156	27124	25151	24118	22146	21113					
208	34137		30105	28132	27100	25127	23154	22122	20149					
209	36103		29141	28108	26135	25102	23130	21157	20124					
210	37129		29115	27143	26110	24137	23104	21132	19159					
211	38154		28149	27117	25144	24111	22138	21106	19133					
212	40120		28122	26150	25117	23144	22112	20139	19106					
213	41146		27155	26122	24149	23117	21144	20111	18139					
214	43111		27126	25153	24121	22148	21115	19143	18110					
215	44137		26156	25124	23151	22118	20146	19113	17140					
216	46102		26125	24150	23120	21147	20115	18142	17109					
217	47127		25153	24120	22148	21115	19142	18110	16137					
218	48152		25119	23147	22114	20141	19109	17136	16103					
219	50117		24144	23111	21139	20106	18133	17101	15128					
220	51142		24107	22134	21102	19129	17156	16124	14151					
221	53106		23128	21155	20123	18150	17117	15144	14112					
222	54131		22147	21114	19141	18109	16136	15103	13130					
223	55155		22103	20130	18157	17123	15152	14119	12147					
224	57119		21116	19144	18111	16138	15105	13133	12100					
225	58142		20126	18154	17121	15148	14116	12143	11110					
226	60106		19133	18100	16128	14155	13122	11149	10117					
227	61129		18145	17103	15130	13157	12124	10152	9119					
228	62151		17113	16100	14127	12155	11122	9149	8117					
229	64114		16125	15152	13120	11147	10114	8141	7109					
230	65135		15111	14138	12105	10132	9100	7127	5154					
231	66157		13149	12116	10143	9111	7138	6105	4132					
232	68117		12118	10145	9113	7140	6107	4134	3102					
233	69137		10137	9104	7131	5159	4126	2153	1121					
234	70155		8143	7110	5138	4105	2132	0159	0133					
235	72113		6144	5101	3129	1156	0123	1109	2142					
236	73129		4107	2134	1101	0131	2104	3137	5109					
237	74143		1117	0115	1148	0121	4154	6126	7159					
238	75154		2100	1111	5105	6138	8111	9143	1116					
239	77103		5151	7124	8156	10129	12102	13154	15107					
240	78108		10123	11156	13129	15102	16134	18107	19140					
241	79108		15146	17119	18152	20124	21157	23130	25103					
242	80102		22109	23142	25114	26147	28120	29152	31125					
243	80147		29138	31111	32144	35129	37122	38154	40125					
244	81122		38116	39148	41121	42154	44126	45159	47132					
245	81144		47152	49124	50157	52130	54102	55135	57108					

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ROW	LATITUDE	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	ROW
---	-----	---	---	---	---	---	---	---	---	---	-----	---
		PATH: 043		044		045		046		047	048 049	
246	81:51	- 58:02	- 59:35	- 61:07	- 62:40	- 64:13	- 65:46	- 67:19				246
247	81:44	- 68:12	- 69:45	- 71:18	- 72:51	- 74:23	- 75:56	- 77:29				247
248	81:22	- 77:48	- 79:21	- 80:54	- 82:27	- 83:59	- 85:32	- 87:05				248

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---	-----	----	---	---	---	---	---	---	---	---	---	-----	-----	---
001	80:47	- 72:32	- 74:04	- 75:37	- 77:10	- 78:42	- 80:15	- 81:48	- 83:21	- 84:54	- 86:27	- 88:00	80:47	001
002	80:02	- 80:01	- 81:34	- 83:06	- 84:39	- 86:12	- 87:44	- 89:17	- 90:50	- 92:23	- 93:56	- 95:29	80:02	002
003	79:08	- 86:23	- 87:56	- 89:29	- 91:01	- 92:34	- 94:07	- 95:40	- 97:13	- 98:46	- 100:19	- 101:52	79:08	003
004	78:08	- 91:46	- 93:19	- 94:52	- 96:24	- 97:57	- 99:30	- 101:03	- 102:36	- 104:09	- 105:42	- 107:15	78:08	004
005	77:03	- 96:19	- 97:52	- 99:24	- 100:57	- 102:30	- 104:02	- 105:35	- 107:08	- 108:41	- 110:14	- 111:47	77:03	005
006	75:54	- 100:10	- 101:42	- 103:15	- 104:48	- 106:21	- 107:53	- 109:26	- 110:59	- 112:32	- 114:05	- 115:38	75:54	006
007	74:43	- 103:27	- 104:59	- 106:32	- 108:05	- 109:38	- 111:10	- 112:43	- 114:16	- 115:49	- 117:22	- 118:55	74:43	007
008	73:24	- 106:17	- 107:49	- 109:22	- 110:55	- 112:27	- 114:00	- 115:33	- 117:06	- 118:39	- 120:12	- 121:45	73:24	008
009	72:13	- 108:44	- 110:16	- 111:49	- 113:22	- 114:55	- 116:27	- 118:00	- 119:33	- 121:06	- 122:39	- 124:12	72:13	009
010	70:55	- 110:53	- 112:25	- 113:58	- 115:31	- 117:03	- 118:36	- 120:09	- 121:42	- 123:15	- 124:48	- 126:21	70:55	010
011	69:37	- 112:46	- 114:19	- 115:52	- 117:25	- 118:57	- 120:30	- 122:03	- 123:36	- 125:09	- 126:42	- 128:15	69:37	011
012	68:17	- 114:28	- 116:00	- 117:33	- 119:06	- 120:39	- 122:12	- 123:45	- 125:18	- 126:51	- 128:24	- 129:57	68:17	012
013	66:57	- 115:58	- 117:31	- 119:04	- 120:37	- 122:10	- 123:43	- 125:16	- 126:49	- 128:22	- 129:55	- 131:28	66:57	013
014	65:35	- 117:20	- 118:53	- 120:26	- 121:59	- 123:32	- 125:05	- 126:38	- 128:11	- 129:44	- 131:17	- 132:50	65:35	014
015	64:14	- 118:35	- 120:07	- 121:40	- 123:13	- 124:46	- 126:19	- 127:52	- 129:25	- 130:58	- 132:31	- 134:04	64:14	015
016	62:51	- 119:43	- 121:15	- 122:48	- 124:21	- 125:54	- 127:27	- 129:00	- 130:33	- 132:06	- 133:39	- 135:12	62:51	016
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ROW	LATITUDE	PATH											LATITUDE	ROW
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053	10107	138109	139141	141114	142147	144120	144152	144125	144125	144125	144125	10107	053	
054	8141	138128	140100	141133	143106	144138	144111	144144	144144	144144	144144	8141	054	
055	7114	138146	140119	141152	143124	144157	144130	144163	144163	144163	144163	7114	055	
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058	2154	139142	141114	142147	144138	145152	145184	145157	145157	145157	145157	2154	058	
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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	050	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	054	055	056	LATITUDE	ROW
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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
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183	-1:27	27:38	26:06	24:33	23:00	21:27	19:55	18:22	17:11	15:38	14:00	12:20	-1:27	183
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186	2:54	26:43	25:10	23:38	22:05	20:32	18:59	17:27	16:16	14:40	13:00	11:20	2:54	186
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PATH/RUN TO LATITUDE/LONGITUDE
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198	20114	22155	21122	19149	18117	16144	15111	13138	20114	198		20114	198
199	21140	22135	21102	19129	17156	16124	14151	13118	21140	199		21140	199
200	23107	22114	20141	19109	17136	16103	14131	12158	23107	200		23107	200
201	24133	21153	20121	18148	17115	15142	14110	12137	24133	201		24133	201
202	26100	21132	19159	18127	16154	15121	13149	12116	26100	202		26100	202
203	27126	21111	19138	18105	16132	15100	13127	11154	27126	203		27126	203
204	28152	20149	19116	17121	16111	14138	13105	11132	28152	204		28152	204
205	30118	20126	18154	16158	15148	14116	12120	10147	30118	205		30118	205
206	31145	20103	18131	16135	15125	13153	12120	10124	31145	206		31145	206
207	33111	19140	18107	16111	15102	13129	11157	10100	33111	207		33111	207
208	34137	19116	17143	16111	14139	13105	11133	9135	34137	208		34137	208
209	36103	18152	17119	15146	14114	12141	11108	9110	36103	209		36103	209
210	37129	18126	16154	15121	13148	12116	10143	8117	37129	210		37129	210
211	38154	18100	16128	14155	13122	11150	10117	8117	38154	211		38154	211
212	40120	17134	16101	14128	12155	11123	9150	7150	40120	212		40120	212
213	41146	17106	15133	14155	12128	10155	9122	7121	41146	213		41146	213
214	43111	16137	15104	13132	11159	10126	8154	6151	43111	214		43111	214
215	44137	15107	14135	13102	11129	9157	8124	6120	44137	215		44137	215
216	46102	14136	14104	12131	10158	9126	7121	5148	46102	216		46102	216
217	47127	13154	13123	11159	10126	8153	7121	5148	47127	217		47127	217
218	48152	13118	12158	11125	9152	8120	6142	4139	48152	218		48152	218
219	50117	13155	12123	10113	9117	7144	5135	3123	50117	219		50117	219
220	51142	12139	11106	10150	8140	6128	4156	2142	51142	220		51142	220
221	53106	11158	10125	8152	7120	5147	3130	1158	53106	221		53106	221
222	54131	11124	9141	8109	6136	4116	2144	1111	54131	222		54131	222
223	55155	10127	8155	7122	5139	3127	1154	0132	55155	223		55155	223
224	57119	9137	8105	6132	4159	3127	1100	0132	57119	224		57119	224
225	58142	8144	7111	5139	4106	2133	1100	0132	58142	225		58142	225
226	60106	7146	6114	4141	3108	1136	1100	0132	60106	226		60106	226
227	61129	6144	5111	3139	2106	0133	1100	0132	61129	227		61129	227
228	62151	5114	4103	2131	0158	0133	1100	0132	62151	228		62151	228
229	63135	4122	3149	1116	0116	0133	1100	0132	63135	229		63135	229
230	64114	3100	2127	0106	1138	0133	1100	0132	64114	230		64114	230
231	65157	2106	1127	0106	1138	0133	1100	0132	65157	231		65157	231
232	66117	1127	0104	0106	1138	0133	1100	0132	66117	232		66117	232
233	67137	0112	1145	1118	1136	0133	1100	0132	67137	233		67137	233
234	68117	2106	3139	5111	6144	10126	11158	13131	68117	234		68117	234
235	70155	4115	5148	7120	8153	10126	11158	13131	70155	235		70155	235
236	72113	6142	8115	9147	1110	15143	17115	18148	72113	236		72113	236
237	73129	9132	11104	12137	13127	15143	17115	18148	73129	237		73129	237
238	74143	12149	14122	15145	17127	19100	20132	2105	74143	238		74143	238
239	75154	16140	18113	19145	21118	23146	24123	25156	75154	239		75154	239
240	76108	21112	22145	24118	25150	27124	28156	30129	76108	240		76108	240
241	77103	26135	28108	29141	31113	32146	34119	35151	77103	241		77103	241
242	78108	32158	34130	36103	37136	38138	40141	42144	78108	242		78108	242
243	80147	40127	43100	46138	48111	50137	52110	54148	80147	243		80147	243
244	81122	49105	50137	52110	54148	56148	58121	60124	81122	244		81122	244
245	81144	58140	60113	61146	63119	64151	66124	67157	81144	245		81144	245

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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
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002	80:02	- 90:50	- 92:22	- 93:55	- 95:28	- 97:01	- 98:34	- 100:07	- 101:40	- 103:13	- 104:46	- 106:19	80:02	002
003	79:08	- 97:12	- 98:45	- 100:18	- 101:51	- 103:24	- 104:57	- 106:30	- 108:03	- 109:36	- 111:09	- 112:42	79:08	003
004	78:08	- 102:35	- 104:08	- 105:41	- 107:14	- 108:47	- 110:20	- 111:53	- 113:26	- 114:59	- 116:32	- 118:05	78:08	004
005	77:03	- 107:08	- 108:40	- 110:13	- 111:46	- 113:19	- 114:52	- 116:25	- 117:58	- 119:31	- 121:04	- 122:37	77:03	005
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052	11:34	-148:39	-150:12	-151:44	-153:17	-154:50	-156:22	-157:55	-159:28	-161:00	-162:32	-164:05	11:34	052
053	10:07	-148:58	-150:30	-152:03	-153:36	-155:09	-156:41	-158:14	-159:46	-161:18	-162:50	-164:23	10:07	053
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135	-112:47	20:32:05	-209:07	-211:20	-213:33	-215:06	-216:39	-218:12	-219:45	-221:18	-222:51	-112:47	135	
136	-114:47	20:39:27	-210:19	-212:32	-214:45	-216:18	-217:51	-219:24	-220:57	-222:30	-224:03	-114:47	136	
137	-116:47	20:46:49	-211:31	-213:44	-215:57	-217:30	-219:03	-220:36	-222:09	-223:42	-225:15	-116:47	137	
138	-118:47	20:54:11	-212:43	-214:56	-217:09	-218:42	-220:15	-221:48	-223:21	-224:94	-226:27	-118:47	138	
139	-120:47	21:01:33	-213:55	-216:08	-218:21	-219:54	-221:27	-223:00	-224:33	-226:06	-227:39	-120:47	139	
140	-122:47	21:08:55	-215:07	-217:20	-219:33	-221:06	-222:39	-224:12	-225:45	-227:18	-228:51	-122:47	140	
141	-124:47	21:16:17	-216:19	-218:32	-220:45	-222:18	-223:51	-225:24	-226:57	-228:30	-230:03	-124:47	141	
142	-126:47	21:23:39	-217:31	-219:44	-221:57	-223:30	-225:03	-226:36	-228:09	-229:42	-231:15	-126:47	142	
143	-128:47	21:31:01	-218:43	-220:56	-223:09	-224:42	-226:15	-227:48	-229:21	-230:94	-232:27	-128:47	143	
144	-130:47	21:38:23	-219:55	-222:08	-224:21	-225:54	-227:27	-229:00	-230:33	-232:06	-233:39	-130:47	144	
145	-132:47	21:45:45	-221:07	-223:20	-225:33	-227:06	-228:39	-230:12	-231:45	-233:18	-234:51	-132:47	145	
146	-134:47	21:53:07	-222:19	-224:32	-226:45	-228:18	-229:51	-231:24	-232:57	-234:30	-236:03	-134:47	146	
147	-136:47	22:00:29	-223:31	-225:44	-227:57	-229:30	-231:03	-232:36	-234:09	-235:42	-237:15	-136:47	147	

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PATH/ROW TO LATITUDE/LONGITUDE
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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES MINUTES)	061	062	063	LATITUDE	ROW
148	-51:42	30133	29100	27127	25155	24122	23149	22149	21116	20139	19146	-51:42	148				
149	-50:17	29156	28123	27150	25117	23145	22112	21112	20139	19146	18154	-50:17	149				
150	-48:52	29120	27148	26115	24142	23109	22137	21304	20130	19130	18158	-48:52	150				
151	-47:27	28147	27114	26141	24108	23136	22103	21031	20131	19130	18158	-47:27	151				
152	-46:02	28114	26142	25109	24136	23103	22131	21000	20130	19130	18158	-46:02	152				
153	-44:37	27143	26111	25138	24105	23133	22100	21030	20130	19130	18158	-44:37	153				
154	-43:11	27114	25141	24108	23136	22103	21031	20131	19130	18158	17129	-43:11	154				
155	-41:46	26145	25112	24140	23139	22106	21034	20134	19101	18134	17129	-41:46	155				
156	-40:20	26117	24145	23112	22139	21036	20106	18134	17101	16134	15129	-40:20	156				
157	-38:54	25150	24118	23145	22112	21040	19140	18107	17101	16134	15129	-38:54	157				
158	-37:29	25124	24152	23152	22146	21046	19144	18141	17141	16134	15129	-37:29	158				
159	-36:03	24159	23127	22119	21054	20119	19148	18146	17146	16134	15129	-36:03	159				
160	-34:37	24135	23102	22129	21057	20124	19148	18146	17146	16134	15129	-34:37	160				
161	-33:11	24111	22138	21055	20142	19133	18124	17137	16137	15145	14154	-33:11	161				
162	-31:45	23147	22115	21042	20146	19109	18146	17146	16137	15145	14154	-31:45	162				
163	-30:18	23125	22152	21019	20119	19146	18146	17146	16137	15145	14154	-30:18	163				
164	-28:52	23102	22139	21057	20124	19148	18146	17146	16137	15145	14154	-28:52	164				
165	-27:26	22140	21108	20135	19135	18102	17141	16139	15145	14154	13124	-27:26	165				
166	-26:00	22119	21046	20133	19133	18102	17141	16139	15145	14154	13124	-26:00	166				
167	-24:33	21158	20125	19152	18159	17141	16139	15145	14154	13124	12121	-24:33	167				
168	-23:07	21137	20104	19131	18159	17141	16139	15145	14154	13124	12121	-23:07	168				
169	-21:40	20156	19144	18151	17151	16138	15145	14154	13124	12121	11120	-21:40	169				
170	-20:14	20136	19103	18131	17131	16138	15145	14154	13124	12121	11120	-20:14	170				
171	-18:47	19122	18144	17144	16144	15158	14154	13124	12121	11120	10120	-18:47	171				
172	-17:21	19157	18124	17152	16152	15158	14154	13124	12121	11120	10120	-17:21	172				
173	-15:54	19138	18105	17132	16132	15158	14154	13124	12121	11120	10120	-15:54	173				
174	-14:27	19119	18146	17146	16146	15158	14154	13124	12121	11120	10120	-14:27	174				
175	-13:01	19100	18127	17127	16127	15154	14154	13124	12121	11120	10120	-13:01	175				
176	-11:34	18141	17108	16108	15108	14154	13124	12121	11120	10120	9143	-11:34	176				
177	-10:07	18122	16149	15149	14154	13124	12121	11120	10120	9143	8124	-10:07	177				
178	-8:41	18103	16131	15131	14154	13124	12121	11120	10120	9143	8124	-8:41	178				
179	-7:14	17145	16112	15112	14154	13124	12121	11120	10120	9143	8124	-7:14	179				
180	-5:47	17126	15154	14154	13124	12121	11120	10120	9143	8124	7152	-5:47	180				
181	-4:20	17107	15135	14135	13124	12121	11120	10120	9143	8124	7152	-4:20	181				
182	-2:54	16149	15117	14117	13124	12121	11120	10120	9143	8124	7152	-2:54	182				
183	-1:27	16131	14158	13158	12158	11154	10120	9143	8124	7152	6156	-1:27	183				
184	0:00	16113	14140	13140	12140	11154	10120	9143	8124	7152	6156	0:00	184				
185	1:27	15154	14121	13121	12121	11154	10120	9143	8124	7152	6156	1:27	185				
186	2:54	15136	14103	13103	12103	11154	10120	9143	8124	7152	6156	2:54	186				
187	4:20	15117	13126	12126	11126	10120	9143	8124	7152	6156	5147	4:20	187				
188	5:47	14159	13107	12107	11107	10120	9143	8124	7152	6156	5147	5:47	188				
189	7:14	14140	12149	11149	10149	9143	8124	7152	6156	5147	4146	7:14	189				
190	8:41	14121	12130	11130	10130	9143	8124	7152	6156	5147	4146	8:41	190				
191	10:07	14102	12111	11111	10111	9143	8124	7152	6156	5147	4146	10:07	191				
192	11:34	13143	12100	11100	10100	9143	8124	7152	6156	5147	4146	11:34	192				
193	13:01	13124	12100	11100	10100	9143	8124	7152	6156	5147	4146	13:01	193				
194	14:27	13105	12100	11100	10100	9143	8124	7152	6156	5147	4146	14:27	194				
195	15:54	13124	12100	11100	10100	9143	8124	7152	6156	5147	4146	15:54	195				
196	17:21	12145	11123	10123	9140	8127	7152	6156	5147	4146	3129	17:21	196				

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
			057	058	059	060	061	062	063					
197	18:47	12:26	10:53	9:20	7:48	6:15	4:42	3:10	18:47	197				
198	20:14	12:06	10:33	9:00	7:28	5:55	4:22	2:50	20:14	198				
199	21:40	11:46	10:13	8:40	7:07	5:35	4:02	2:29	21:40	199				
200	23:07	11:25	9:52	8:20	6:47	5:14	3:42	2:10	23:07	200				
201	24:33	11:04	9:32	7:59	6:26	4:53	3:21	1:48	24:33	201				
202	26:00	10:43	9:10	7:38	6:05	4:32	3:00	1:27	26:00	202				
203	27:26	10:22	8:49	7:16	5:44	4:11	2:38	1:05	27:26	203				
204	28:52	10:00	8:27	6:54	5:22	3:49	2:16	0:44	28:52	204				
205	30:18	9:37	8:05	6:32	4:59	3:27	1:54	0:21	30:18	205				
206	31:45	9:15	7:42	6:09	4:36	3:04	1:31	0:02	31:45	206				
207	33:11	8:51	7:18	5:46	4:13	2:40	1:08	0:25	33:11	207				
208	34:37	8:27	6:55	5:22	3:49	2:16	0:44	0:49	34:37	208				
209	36:03	8:03	6:30	4:57	3:25	1:52	0:19	1:39	36:03	209				
210	37:29	7:37	6:05	4:32	2:59	1:27	0:06	2:05	37:29	210				
211	38:54	7:11	5:39	4:06	2:33	1:01	0:32	2:32	38:54	211				
212	40:20	6:45	5:12	3:39	2:07	0:34	0:59	3:00	40:20	212				
213	41:46	6:17	4:44	3:12	1:39	0:06	1:27	3:28	41:46	213				
214	43:11	5:48	4:16	2:43	1:10	0:23	1:55	3:56	43:11	214				
215	44:37	5:19	3:46	2:13	0:40	0:52	2:25	4:24	44:37	215				
216	46:02	4:48	3:15	1:42	0:09	1:23	2:56	4:52	46:02	216				
217	47:27	4:15	2:43	1:10	0:56	1:56	3:28	5:01	47:27	217				
218	48:52	3:42	2:09	0:36	0:13	2:29	4:02	5:35	48:52	218				
219	50:17	3:06	1:34	0:01	1:32	3:05	4:37	6:10	50:17	219				
220	51:42	2:29	0:57	0:36	2:09	3:42	5:14	6:47	51:42	220				
221	53:06	1:50	0:17	1:15	2:48	4:21	5:53	7:26	53:06	221				
222	54:31	1:09	0:24	1:57	3:29	5:02	6:35	8:07	54:31	222				
223	55:55	0:25	1:08	2:40	4:13	5:46	7:18	8:51	55:55	223				
224	57:19	0:22	1:54	3:27	5:00	6:32	8:05	9:38	57:19	224				
225	58:42	1:11	2:44	4:17	5:50	7:22	8:55	10:28	58:42	225				
226	60:06	2:05	3:38	5:10	6:43	8:16	9:48	11:21	60:06	226				
227	61:29	3:03	4:35	6:08	7:41	9:13	10:46	12:19	61:29	227				
228	62:51	4:05	5:38	7:10	8:43	10:16	11:48	13:21	62:51	228				
229	64:14	5:13	6:46	8:18	9:51	11:24	12:56	14:29	64:14	229				
230	65:35	6:27	7:59	9:33	11:05	12:38	14:11	15:43	65:35	230				
231	66:57	7:49	9:22	10:55	12:27	14:00	15:33	17:05	66:57	231				
232	68:17	9:20	10:53	12:25	13:58	15:31	17:03	18:36	68:17	232				
233	69:37	11:01	12:34	14:06	15:39	17:12	18:45	20:17	69:37	233				
234	70:55	12:55	14:28	15:59	17:33	19:06	20:38	22:11	70:55	234				
235	72:13	15:04	16:36	18:09	19:42	21:15	22:47	24:20	72:13	235				
236	73:29	17:31	19:04	20:36	22:09	23:42	25:15	26:47	73:29	236				
237	74:43	20:21	21:53	23:26	25:01	26:34	28:07	29:39	74:43	237				
238	75:54	23:38	25:10	26:43	28:16	29:49	31:21	32:54	75:54	238				
239	77:03	27:29	29:01	30:34	32:07	33:40	35:12	36:45	77:03	239				
240	78:08	32:01	33:34	35:07	36:40	38:12	39:45	41:17	78:08	240				
241	79:08	37:24	38:57	40:30	42:02	43:35	45:08	46:40	79:08	241				
242	80:02	43:47	45:19	46:52	48:25	49:57	51:30	53:03	80:02	242				
243	80:47	51:16	52:49	54:21	55:54	57:27	59:00	60:32	80:47	243				
244	81:22	59:53	61:26	62:59	64:32	66:04	67:37	69:10	81:22	244				
245	81:44	69:29	71:02	72:35	74:08	75:40	77:13	78:46	81:44	245				

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---	-----	----	---	---	---	---	---	---	---	---	---	-----	-----	----
246	81:51	- 79:40	- 81:13	- 81:45	- 84:18	- 85:51	- 87:23	- 88:56	- 90:07	- 91:01	- 92:10	- 93:10	81:51	246
247	81:44	- 89:50	- 91:23	- 92:56	- 94:28	- 96:01	- 97:34	- 99:07	- 100:59	- 102:32	- 104:05	- 105:38	81:44	247
248	81:37	- 99:26	- 100:59	- 102:32	- 104:05	- 105:38	- 107:10	- 108:42	- 110:15	- 111:48	- 113:21	- 114:54	81:37	248

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
001	80:47	-94109	-95142	-97115	-98148	-100120	-101153	-103126	-104144	-106117	-107150	-108126	80:47	001
002	80:02	-101139	-103111	-104144	-106117	-107150	-108126	-110153	-111107	-112139	-113142	-114126	80:02	002
003	79:08	-108101	-109134	-111107	-112139	-113142	-114126	-116153	-117117	-118102	-119135	-120108	79:08	003
004	78:08	-113124	-114157	-116130	-117117	-118102	-119135	-121153	-122139	-123126	-124107	-125140	78:08	004
005	77:03	-117157	-119129	-121102	-122135	-123126	-124107	-126153	-127113	-128140	-129131	-130104	77:03	005
006	75:54	-121148	-123120	-124153	-126126	-127158	-128140	-130153	-131104	-132131	-133148	-134121	75:54	006
007	74:43	-125105	-126137	-128110	-129143	-131116	-132148	-134121	-135138	-136105	-137111	-138144	74:43	007
008	73:29	-127154	-129127	-131100	-132133	-134105	-135138	-137111	-138144	-139138	-140114	-141147	73:29	008
009	72:13	-130122	-131154	-133127	-134100	-135132	-136105	-138144	-139138	-140114	-141147	-142120	72:13	009
010	70:55	-132131	-134103	-135136	-137109	-138141	-139135	-141147	-142120	-143149	-144126	-145152	70:55	010
011	69:37	-134124	-135157	-137130	-138103	-140115	-141148	-143152	-144125	-145158	-146131	-147104	69:37	011
012	68:17	-136106	-137138	-139111	-140144	-142116	-143149	-145152	-146125	-147104	-148131	-149104	68:17	012
013	66:57	-137136	-138109	-140142	-141115	-143147	-144120	-146124	-147131	-148104	-149136	-150109	66:57	013
014	65:35	-138158	-140131	-141104	-142136	-144109	-145132	-147104	-148136	-149109	-150132	-151105	65:35	014
015	64:14	-140112	-141145	-143118	-144151	-146123	-147156	-149104	-150136	-151109	-152132	-153105	64:14	015
016	62:51	-141120	-142153	-144126	-145159	-147101	-148134	-150106	-151139	-152112	-153145	-154118	62:51	016
017	61:29	-142123	-143156	-145129	-146162	-148109	-149142	-151106	-152139	-153112	-154145	-155118	61:29	017
018	60:06	-143120	-144153	-146126	-147159	-149132	-150165	-152137	-153170	-154143	-155176	-156149	60:06	018
019	58:42	-144114	-145147	-147119	-148152	-150125	-151158	-153130	-154163	-155136	-156169	-157142	58:42	019
020	57:19	-145104	-146136	-148109	-149142	-151115	-152148	-154120	-155153	-156126	-157159	-158132	57:19	020
021	55:55	-145150	-147123	-148156	-150129	-151162	-152195	-154134	-155167	-156140	-157173	-158146	55:55	021
022	54:31	-146134	-148107	-149140	-151112	-152145	-153178	-155150	-156183	-157156	-158189	-159162	54:31	022
023	53:06	-147116	-148148	-150121	-151154	-153126	-154159	-156132	-157165	-158198	-159171	-160104	53:06	023
024	51:42	-147155	-149127	-151100	-152133	-154105	-155138	-157111	-158144	-159177	-160150	-161123	51:42	024
025	50:17	-148132	-150104	-151137	-152170	-154142	-155175	-157148	-158181	-159154	-160187	-161160	50:17	025
026	48:52	-149107	-150140	-151172	-152145	-154118	-155151	-157124	-158157	-159190	-160163	-161196	48:52	026
027	47:27	-149141	-151113	-152146	-153179	-155152	-156185	-158158	-159191	-160164	-161197	-162170	47:27	027
028	46:02	-150113	-151146	-152179	-153188	-155161	-156194	-158167	-159199	-160172	-161205	-162178	46:02	028
029	44:37	-150144	-152117	-153149	-154182	-156155	-157188	-159161	-160194	-161167	-162199	-163172	44:37	029
030	43:11	-151114	-152146	-153179	-154188	-156161	-157194	-159167	-160200	-161173	-162206	-163179	43:11	030
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051	13:01	-159:09	-160:41	-162:14	-163:47	-165:20	-166:53	-168:26	-169:59	-171:32	-173:05	-174:38	051
052	11:34	-159:28	-161:00	-162:33	-164:06	-165:39	-167:12	-168:45	-170:18	-171:51	-173:24	-174:57	052
053	10:07	-159:47	-161:19	-162:52	-164:25	-165:58	-167:31	-169:04	-170:37	-172:10	-173:43	-175:16	053
054	8:41	-160:05	-161:38	-163:11	-164:44	-166:17	-167:50	-169:23	-170:56	-172:29	-174:02	-175:35	054
055	7:14	-160:24	-161:57	-163:30	-165:03	-166:36	-168:09	-169:42	-171:15	-172:48	-174:21	-175:54	055
056	5:47	-160:43	-162:15	-163:48	-165:21	-166:54	-168:27	-169:60	-171:33	-173:06	-174:39	-175:72	056
057	4:20	-161:01	-162:34	-164:06	-165:39	-167:12	-168:45	-170:18	-171:51	-173:24	-174:57	-176:30	057
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100	-57:19	-178:49	179:38				178:06		176:33			173:28	-57:19	100
101	-58:42	-179:39	178:49				177:16		175:10			170:15	-58:42	101
102	-60:06	179:28	177:55				176:22		174:50			171:44	-60:06	102
103	-61:29	178:30	176:57				175:25		173:52			170:47	-61:29	103
104	-62:51	177:28	175:55				174:22		172:50			169:44	-62:51	104
105	-64:14	176:20	174:47				173:14		171:42			168:36	-64:14	105
106	-65:35	175:05	173:33				172:00		170:27			167:22	-65:35	106
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108	-68:17	172:13	170:40				169:07		167:33			164:29	-68:17	108
109	-69:37	170:32	168:59				167:26		165:54			162:18	-69:37	109
110	-70:55	168:38	167:05				165:32		164:00			160:54	-70:55	110
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112	-73:29	164:02	164:02				160:56		159:24			156:18	-73:29	112
113	-74:43	161:12	159:39				158:07		156:34			153:29	-74:43	113
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116	-78:08	149:31	147:59				146:26		144:53			141:48	-78:08	116
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118	-80:02	137:46	136:13				134:41		133:08			130:03	-80:02	118
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146	-54:31	21:04	19:31				17:59		16:26			13:11	-54:31	146
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179	-7:14	7:14	5:42	4:09	2:36	1:04	0:29	2:02				-7:14	179	
180	-5:47	6:56	5:23	3:50	2:18	0:45	0:48	2:20				-5:47	180	
181	-4:20	6:37	5:05	3:32	1:59	0:26	1:06	2:39				-4:20	181	
182	-2:54	6:19	4:46	3:13	1:41	0:08	1:25	2:57				-2:54	182	
183	-1:27	6:00	4:28	2:55	1:22	0:10	1:43	3:16				-1:27	183	
184	0:00	5:42	4:09	2:37	1:04	0:29	2:01	3:34				0:00	184	
185	1:27	5:24	3:51	2:18	0:46	0:47	2:20	3:53				1:27	185	
186	2:54	5:05	3:32	2:00	0:27	1:06	2:38	4:11				2:54	186	
187	4:20	4:47	3:14	1:41	0:09	1:24	2:57	4:29				4:20	187	
188	5:47	4:28	2:56	1:23	0:10	1:43	3:15	4:48				5:47	188	
189	7:14	4:10	2:37	1:04	0:28	2:01	3:34	5:07				7:14	189	
190	8:41	3:51	2:18	0:46	0:47	2:20	3:52	5:25				8:41	190	
191	10:07	3:32	2:00	0:27	1:06	2:39	4:11	5:44				10:07	191	
192	11:34	3:13	1:41	0:08	1:25	2:57	4:30	6:03				11:34	192	
193	13:01	2:54	1:22	0:11	1:44	3:16	4:49	6:22				13:01	193	
194	14:27	2:35	1:03	0:30	2:03	3:35	5:08	6:41				14:27	194	
195	15:54	2:16	0:43	0:49	2:22	3:55	5:28	7:00				15:54	195	
196	17:21	1:57	0:24	1:09	2:42	4:14	5:47	7:20				17:21	196	

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	U	N	G	I	T	U	D	E	(DEGREES/MINUTES)	069	070	LATITUDE	ROW
197	18:47		1:37		0:04	-	1:29	-	3:01	-	4:34	-	6:07	-	7:39	197
198	20:14		1:17		0:16	-	1:49	-	3:21	-	4:54	-	6:27	-	7:59	198
199	21:40		0:57		0:36	-	2:09	-	3:41	-	5:14	-	6:47	-	8:20	199
200	23:07		0:36		0:57	-	2:29	-	4:02	-	5:35	-	7:07	-	8:40	200
201	24:33		0:15		1:17	-	2:50	-	4:23	-	5:55	-	7:28	-	9:01	201
202	26:00		0:06		1:38	-	3:11	-	4:44	-	6:17	-	7:49	-	9:22	202
203	27:27		0:27		2:00	-	3:33	-	5:05	-	6:38	-	8:11	-	9:43	203
204	28:52		0:49		2:22	-	3:55	-	5:27	-	7:00	-	8:33	-	10:05	204
205	30:18		1:12		2:44	-	4:17	-	5:50	-	7:22	-	8:55	-	10:28	205
206	31:45		1:34		3:07	-	4:40	-	6:12	-	7:45	-	9:18	-	10:51	206
207	33:11		1:58		3:30	-	5:03	-	6:36	-	8:09	-	9:41	-	11:14	207
208	34:37		2:22		3:54	-	5:27	-	7:00	-	8:32	-	10:05	-	11:38	208
209	36:03		2:46		4:19	-	5:52	-	7:24	-	8:57	-	10:30	-	12:02	209
210	37:29		3:11		4:44	-	6:17	-	7:50	-	9:22	-	10:55	-	12:28	210
211	38:54		3:37		5:10	-	6:43	-	8:16	-	9:49	-	11:21	-	12:54	211
212	40:20		4:04		5:37	-	7:10	-	8:42	-	10:15	-	11:48	-	13:21	212
213	41:46		4:32		6:05	-	7:37	-	9:10	-	10:43	-	12:16	-	13:48	213
214	43:11		5:01		6:33	-	8:06	-	9:39	-	11:11	-	12:44	-	14:17	214
215	44:37		5:30		7:03	-	8:36	-	10:09	-	11:41	-	13:14	-	14:47	215
216	46:02		6:01		7:34	-	9:07	-	10:39	-	12:12	-	13:45	-	15:18	216
217	47:27		6:34		8:06	-	9:39	-	11:12	-	12:44	-	14:17	-	15:50	217
218	48:52		7:07		8:40	-	10:13	-	11:45	-	13:18	-	14:51	-	16:24	218
219	50:17		7:43		9:15	-	10:48	-	12:21	-	13:54	-	15:26	-	16:59	219
220	51:42		8:20		9:52	-	11:25	-	12:58	-	14:31	-	16:03	-	17:36	220
221	53:06		8:59		10:31	-	12:04	-	13:37	-	15:10	-	16:42	-	18:15	221
222	54:31		9:40		11:13	-	12:46	-	14:18	-	15:51	-	17:24	-	18:56	222
223	55:55		10:24		11:57	-	13:29	-	15:02	-	16:35	-	18:07	-	19:40	223
224	57:19		11:11		12:43	-	14:16	-	15:49	-	17:21	-	18:54	-	20:27	224
225	58:42		12:00		13:33	-	15:06	-	16:38	-	18:11	-	19:44	-	21:17	225
226	60:06		12:54		14:27	-	15:59	-	17:32	-	19:05	-	20:37	-	22:10	226
227	61:29		13:51		15:24	-	16:57	-	18:30	-	20:02	-	21:35	-	23:08	227
228	62:51		14:54		16:27	-	17:59	-	19:32	-	21:05	-	22:37	-	24:10	228
229	64:14		16:02		17:35	-	19:07	-	20:40	-	22:13	-	23:45	-	25:18	229
230	65:35		17:16		18:49	-	20:22	-	21:54	-	23:27	-	25:00	-	26:32	230
231	66:57		18:38		20:11	-	21:43	-	23:16	-	24:49	-	26:22	-	27:54	231
232	68:17		20:09		21:41	-	23:14	-	24:47	-	26:20	-	27:52	-	29:25	232
233	69:37		21:44		23:16	-	24:49	-	26:22	-	27:54	-	29:27	-	31:00	233
234	70:55		23:13		24:45	-	26:18	-	27:51	-	29:24	-	30:57	-	32:30	234
235	72:13		25:53		27:25	-	29:07	-	30:31	-	32:03	-	33:36	-	35:09	235
236	73:29		28:20		29:53	-	31:25	-	32:49	-	34:22	-	35:55	-	37:28	236
237	74:43		31:10		32:42	-	34:15	-	35:49	-	37:20	-	38:53	-	40:26	237
238	75:54		34:27		35:59	-	37:32	-	39:05	-	40:37	-	42:10	-	43:43	238
239	77:03		38:18		39:50	-	41:23	-	42:56	-	44:28	-	46:01	-	47:34	239
240	78:08		42:50		44:23	-	45:56	-	47:28	-	49:01	-	50:34	-	52:06	240
241	79:08		48:13		49:46	-	51:19	-	52:51	-	54:24	-	55:57	-	57:29	241
242	80:02		54:36		56:08	-	57:41	-	59:14	-	60:46	-	62:19	-	63:52	242
243	80:47		62:05		63:38	-	65:10	-	66:43	-	68:16	-	69:48	-	71:21	243
244	81:22		70:42		72:15	-	73:48	-	75:21	-	76:54	-	78:26	-	79:59	244
245	81:44		80:18		81:51	-	83:24	-	84:56	-	86:29	-	88:02	-	89:35	245

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	L	U	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE
---	-----	---	---	---	---	---	---	---	---	---	-----	-----
		PATH	064	065	066	067	068	069	070			
246	81:51	- 90:29	- 52:01	- 93:34	- 95:07	- 96:40	- 98:12	- 99:45				81:51
247	81:44	-100:49	-102:12	-103:45	-105:17	-106:50	-108:23	-109:55				81:44
248	81:22	-110:15	-111:38	-113:21	-114:53	-116:26	-117:59	-119:31				81:22
												246
												247
												248

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	U	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
			071		072		073		074					
001	80:47	-104:58	-106:31	-108:04	-109:36	-111:09	-112:42	-114:15	80:47	001				
002	80:02	-112:28	-114:00	-115:33	-117:06	-118:38	-120:11	-121:44	80:02	002				
003	79:08	-118:50	-120:23	-121:56	-123:28	-125:01	-126:34	-128:06	79:08	003				
004	78:08	-124:13	-125:46	-127:18	-128:51	-130:24	-131:57	-133:29	78:08	004				
005	77:03	-128:46	-130:18	-131:51	-133:24	-134:56	-136:29	-138:02	77:03	005				
006	75:54	-132:37	-134:09	-135:42	-137:15	-138:47	-140:20	-141:53	75:54	006				
007	74:43	-135:54	-137:26	-138:59	-140:32	-142:05	-143:37	-145:10	74:43	007				
008	73:29	-138:43	-140:16	-141:49	-143:21	-144:54	-146:27	-148:00	73:29	008				
009	72:13	-141:11	-142:43	-144:16	-145:49	-147:21	-148:54	-150:27	72:13	009				
010	70:55	-143:19	-144:52	-146:25	-147:58	-149:30	-151:03	-152:36	70:55	010				
011	69:37	-145:13	-146:46	-148:19	-149:51	-151:24	-152:57	-154:29	69:37	011				
012	68:17	-146:54	-148:27	-150:00	-151:33	-153:05	-154:38	-156:11	68:17	012				
013	66:57	-148:125	-149:58	-151:31	-153:03	-154:36	-156:09	-157:41	66:57	013				
014	65:35	-149:47	-151:20	-152:52	-154:25	-155:58	-157:31	-159:03	65:35	014				
015	64:14	-151:01	-152:34	-154:07	-155:40	-157:12	-158:45	-160:18	64:14	015				
016	62:51	-152:09	-153:42	-155:15	-156:47	-158:20	-159:53	-161:26	62:51	016				
017	61:29	-153:12	-154:44	-156:17	-157:50	-159:23	-160:55	-162:28	61:29	017				
018	60:06	-154:09	-155:42	-157:15	-158:48	-160:20	-161:53	-163:26	60:06	018				
019	58:42	-155:03	-156:36	-158:08	-159:41	-161:14	-162:46	-164:19	58:42	019				
020	57:19	-155:53	-157:25	-158:58	-160:31	-162:04	-163:36	-165:09	57:19	020				
021	55:55	-156:39	-158:12	-159:45	-161:17	-162:50	-164:23	-165:56	55:55	021				
022	54:31	-157:23	-158:56	-160:29	-162:01	-163:34	-165:07	-166:39	54:31	022				
023	53:06	-158:04	-159:37	-161:10	-162:43	-164:15	-165:48	-167:21	53:06	023				
024	51:42	-158:44	-160:16	-161:49	-163:22	-164:54	-166:27	-168:00	51:42	024				
025	50:17	-159:21	-160:53	-162:26	-163:59	-165:31	-167:04	-168:37	50:17	025				
026	48:52	-159:56	-161:28	-163:01	-164:34	-166:07	-167:39	-169:12	48:52	026				
027	47:27	-160:40	-162:10	-163:35	-165:08	-166:40	-168:13	-169:46	47:27	027				
028	46:02	-161:02	-162:35	-164:07	-165:40	-167:13	-168:45	-170:18	46:02	028				
029	44:37	-161:33	-163:06	-164:38	-166:11	-167:44	-169:16	-170:49	44:37	029				
030	43:11	-162:03	-163:35	-165:08	-166:41	-168:13	-169:46	-171:19	43:11	030				
031	41:56	-162:31	-164:04	-165:37	-167:09	-168:42	-170:15	-171:47	41:56	031				
032	40:32	-162:59	-164:32	-166:04	-167:37	-169:10	-170:42	-172:15	40:32	032				
033	38:54	-163:16	-164:58	-166:31	-168:04	-169:37	-171:09	-172:42	38:54	033				
034	37:29	-163:52	-165:24	-166:57	-168:30	-170:03	-171:35	-173:08	37:29	034				
035	36:03	-164:17	-165:50	-167:22	-168:55	-170:28	-171:59	-173:32	36:03	035				
036	34:37	-164:42	-166:14	-167:47	-169:19	-170:52	-172:25	-173:58	34:37	036				
037	33:11	-165:06	-166:38	-168:11	-169:44	-171:16	-172:49	-174:22	33:11	037				
038	31:45	-165:29	-167:02	-168:34	-170:07	-171:39	-173:12	-174:45	31:45	038				
039	30:18	-165:52	-167:24	-168:57	-170:30	-172:03	-173:35	-175:08	30:18	039				
040	28:52	-166:14	-167:47	-169:19	-170:52	-172:25	-173:58	-175:30	28:52	040				
041	27:26	-166:36	-168:09	-169:41	-171:14	-172:47	-174:20	-175:52	27:26	041				
042	26:00	-166:57	-168:30	-170:03	-171:36	-173:08	-174:41	-176:14	26:00	042				
043	24:33	-167:19	-168:51	-170:24	-171:57	-173:29	-175:02	-176:35	24:33	043				
044	23:07	-167:39	-169:12	-170:45	-172:18	-173:50	-175:23	-176:56	23:07	044				
045	21:40	-168:00	-169:53	-171:05	-172:38	-174:11	-175:44	-177:16	21:40	045				
046	20:14	-168:20	-170:13	-171:45	-173:18	-174:51	-176:24	-177:56	20:14	046				
047	18:47	-168:40	-170:33	-172:05	-173:38	-175:11	-176:44	-178:16	18:47	047				
048	17:21	-169:00	-170:52	-172:25	-173:57	-175:30	-177:03	-178:35	17:21	048				
049	15:54	-169:19	-170:52	-172:25	-173:57	-175:30	-177:03	-178:35	15:54	049				

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW		
---	-----	----	---	---	---	---	---	---	---	---	---	-----	-----	---		
		071			072		073			074		075		076		077
050	14127	-169139	-171111	-172144	-173103	-174117	-175149	-176122	-177141	-178125	-179116	-180109	-181101	-182101	050	
051	13101	-169158	-171130	-173103	-174117	-175149	-176122	-177141	-178125	-179116	-180109	-181101	-182101	051		
052	11134	-170117	-171149	-173122	-174136	-175150	-176164	-177178	-178192	-179206	-180220	-181234	-182248	052		
053	10107	-170136	-171168	-173141	-174155	-175169	-176183	-177197	-178211	-179225	-180239	-181253	-182267	053		
054	8141	-170154	-171186	-173159	-174213	-175227	-176241	-177255	-178269	-179283	-180297	-181311	-182325	054		
055	7114	-171113	-172127	-173141	-174155	-175169	-176183	-177197	-178211	-179225	-180239	-181253	-182267	055		
056	5147	-171131	-172145	-173159	-174213	-175227	-176241	-177255	-178269	-179283	-180297	-181311	-182325	056		
057	4120	-171150	-172164	-173178	-174213	-175227	-176241	-177255	-178269	-179283	-180297	-181311	-182325	057		
058	2154	-172108	-173122	-174136	-175150	-176164	-177178	-178192	-179206	-180220	-181234	-182248	-183262	058		
059	1127	-172127	-173141	-174155	-175169	-176183	-177197	-178211	-179225	-180239	-181253	-182267	-183281	059		
060	0100	-172145	-173159	-174213	-175227	-176241	-177255	-178269	-179283	-180297	-181311	-182325	-183339	060		
061	-1127	-173104	-174118	-175132	-176146	-177160	-178174	-179188	-180202	-181216	-182230	-183244	-184258	061		
062	-2154	-173122	-174136	-175150	-176164	-177178	-178192	-179206	-180220	-181234	-182248	-183262	-184276	062		
063	-4120	-173141	-174155	-175169	-176183	-177197	-178211	-179225	-180239	-181253	-182267	-183281	-184295	063		
064	-5147	-173159	-174213	-175227	-176241	-177255	-178269	-179283	-180297	-181311	-182325	-183339	-184353	064		
065	-7114	-174118	-175132	-176146	-177160	-178174	-179188	-180202	-181216	-182230	-183244	-184258	-185272	065		
066	-8141	-174136	-175150	-176164	-177178	-178192	-179206	-180220	-181234	-182248	-183262	-184276	-185290	066		
067	-10107	-174154	-175168	-176182	-177196	-178210	-179224	-180238	-181252	-182266	-183280	-184294	-185308	067		
068	-11134	-175122	-176136	-177150	-178164	-179178	-180192	-181206	-182220	-183234	-184248	-185262	-186276	068		
069	-13101	-175141	-176155	-177169	-178183	-179197	-180211	-181225	-182239	-183253	-184267	-185281	-186295	069		
070	-14127	-175159	-176173	-177187	-178201	-179215	-180229	-181243	-182257	-183271	-184285	-185299	-186313	070		
071	-15154	-176118	-177132	-178146	-179160	-180174	-181188	-182202	-183216	-184230	-185244	-186258	-187272	071		
072	-17121	-176136	-177150	-178164	-179178	-180192	-181206	-182220	-183234	-184248	-185262	-186276	-187290	072		
073	-18147	-176154	-177168	-178182	-179196	-180210	-181224	-182238	-183252	-184266	-185280	-186294	-187308	073		
074	-20114	-177110	-178124	-179138	-180152	-181166	-182180	-183194	-184208	-185222	-186236	-187250	-188264	074		
075	-21140	-177128	-178142	-179156	-180170	-181184	-182198	-183212	-184226	-185240	-186254	-187268	-188282	075		
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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GUARDIAN SPACE FLIGHT CENTER
LANDSAT MISSION MANAGEMENT FACILITY

REPORT : RFL100
SUBSYSTEM : MSS

PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON ARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
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100	-57:19	170:22	168:49	167:17	165:44	164:11	162:39	161:06					-57:19	100
101	-58:42	169:32	167:00	165:27	163:54	162:22	160:55	159:23					-58:42	101
102	-60:06	168:39	166:06	164:36	163:03	161:30	159:58	158:25					-60:06	102
103	-61:29	167:41	165:09	163:33	162:01	160:28	158:55	157:23					-61:29	103
104	-62:51	166:39	163:06	161:31	159:58	158:25	156:52	155:20					-62:51	104
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107	-66:57	162:55	159:25	157:37	155:50	154:13	152:36	150:59					-66:57	107
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109	-69:37	159:43	157:49	155:55	154:02	152:29	150:56	149:24					-69:37	109
110	-70:55	158:13	156:16	154:23	152:30	150:37	148:44	146:51					-70:55	110
111	-72:13	156:40	154:07	152:14	150:21	148:28	146:35	144:42					-72:13	111
112	-73:29	155:13	152:40	150:47	148:54	147:01	145:08	143:15					-73:29	112
113	-74:43	153:13	150:23	148:30	146:37	144:44	142:51	140:58					-74:43	113
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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
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149	-50:17		8:18	6:45	5:12	3:40	2:07	0:34	0:58				-50:17	149
150	-48:52		7:42	6:10	4:37	3:04	1:32	0:01	1:34				-48:52	150
151	-47:27		7:09	5:36	4:03	2:31	0:58	0:26	2:07				-47:27	151
152	-46:02		6:36	5:04	3:31	1:58	0:26	0:55	2:40				-46:02	152
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154	-43:11		5:36	4:03	2:30	0:58	0:24	0:53	3:40				-43:11	154
155	-41:46		5:07	3:34	2:02	0:29	1:04	2:36	4:09				-41:46	155
156	-40:20		4:39	3:07	1:34	0:01	1:31	3:04	4:37				-40:20	156
157	-38:54		4:13	2:41	1:07	0:26	1:58	3:31	5:04				-38:54	157
158	-37:29		3:47	2:14	0:41	0:52	2:24	3:57	5:30				-37:29	158
159	-36:03		3:21	1:49	0:16	1:17	2:49	4:22	5:55				-36:03	159
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161	-33:11		2:33	1:00	0:56	2:05	3:38	5:11	6:43				-33:11	161
162	-31:45		2:09	0:37	0:41	2:29	4:01	5:34	7:07				-31:45	162
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REPORT : HF1300
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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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ROW	LATITUDE	PATH/ROW TO LATITUDE/LONGITUDE FOR ADJACENT PATHS ON EARTH											LATITUDE	ROW
		PATH:	L	O	N	G	I	T	U	D	E	(DEGREES MINUTES)		
			071	072	072	072	073	073	074	074	075	076	077	
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199	21:40	-	9:52	-	11:25	-	12:58	-	14:30	-	16:03	-	17:36	21:40
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201	24:33	-	10:34	-	12:06	-	13:39	-	15:12	-	16:44	-	18:17	24:33
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231	66:57	-	29:27	-	31:00	-	32:32	-	34:05	-	35:38	-	37:11	66:57
232	68:17	-	30:58	-	32:12	-	33:44	-	35:36	-	37:09	-	38:41	68:17
233	69:37	-	32:39	-	34:12	-	35:44	-	37:17	-	38:50	-	40:22	69:37
234	70:55	-	34:33	-	36:05	-	37:38	-	39:11	-	40:44	-	42:16	70:55
235	72:13	-	36:42	-	38:14	-	39:47	-	41:20	-	42:52	-	44:25	72:13
236	73:29	-	39:09	-	40:42	-	42:14	-	43:07	-	44:39	-	46:12	73:29
237	74:43	-	41:58	-	43:11	-	44:04	-	45:37	-	46:09	-	48:34	74:43
238	75:54	-	45:16	-	46:48	-	47:21	-	48:54	-	49:26	-	51:15	75:54
239	77:03	-	49:07	-	50:39	-	51:12	-	52:45	-	53:16	-	54:32	77:03
240	78:08	-	53:39	-	55:12	-	55:45	-	57:17	-	57:49	-	58:12	78:08
241	79:08	-	59:02	-	60:35	-	61:07	-	62:40	-	63:13	-	64:46	79:08
242	80:02	-	65:25	-	66:57	-	67:30	-	69:03	-	69:35	-	71:08	80:02
243	80:47	-	72:54	-	74:27	-	75:59	-	77:32	-	78:05	-	79:37	80:47
244	81:22	-	81:31	-	83:04	-	84:37	-	86:09	-	87:42	-	89:15	81:22
245	81:44	-	91:07	-	92:40	-	94:13	-	95:45	-	97:18	-	98:51	81:44

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ROW	LATITUDE	L	U	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
---	---	---	---	---	---	---	---	---	---	---	---	---	---
246	81:51	PATH: 071	072	073	074	075	076	077					
247	81:44	-101:18	-102:50	-104:23	-105:56	-107:29	-109:01	-110:34					
248	81:22	-111:28	-113:01	-114:34	-116:06	-117:39	-119:12	-120:44					246
		-121:04	-122:37	-124:10	-125:42	-127:15	-128:48	-130:20					247
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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	ROW
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001	80:47	-115:47	-117:20	-118:53	-120:25	-121:58	-123:31	-125:03	081	082	083	084	001
002	80:02	-123:17	-124:09	-126:22	-128:44	-131:17	-134:17	-137:50	-141:23	-145:04	-148:51	-152:42	002
003	79:08	-132:39	-136:35	-140:07	-143:40	-147:13	-150:46	-154:19	-157:52	-161:25	-164:58	-168:30	003
004	78:08	-135:02	-141:07	-146:15	-151:21	-156:28	-161:34	-166:40	-171:46	-176:52	-181:58	-187:04	004
005	77:03	-139:35	-144:15	-149:48	-155:05	-160:19	-165:34	-170:49	-175:55	-181:01	-186:07	-191:13	005
006	75:54	-143:25	-148:15	-153:32	-158:48	-163:54	-169:00	-174:06	-179:12	-184:18	-189:24	-194:30	006
007	74:43	-146:43	-151:59	-157:14	-162:21	-167:27	-172:33	-177:39	-182:45	-187:51	-192:57	-198:03	007
008	73:29	-149:32	-154:48	-159:54	-165:00	-170:06	-175:12	-180:18	-185:24	-190:30	-195:36	-200:42	008
009	72:14	-151:59	-156:02	-161:08	-166:14	-171:20	-176:26	-181:32	-186:38	-191:44	-196:50	-201:56	009
010	70:55	-154:08	-158:12	-163:18	-168:24	-173:30	-178:36	-183:42	-188:48	-193:54	-199:00	-204:06	010
011	69:37	-156:02	-160:14	-165:20	-170:26	-175:32	-180:38	-185:44	-190:50	-195:56	-201:02	-206:08	011
012	68:17	-157:43	-161:55	-166:07	-171:13	-176:21	-181:29	-186:37	-191:45	-196:53	-202:01	-207:09	012
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024	51:42	-169:32	-173:38	-177:44	-182:50	-187:56	-193:02	-198:08	-203:14	-208:20	-213:26	-218:32	024
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027	47:27	-171:19	-175:25	-179:31	-184:37	-189:43	-194:49	-199:55	-205:01	-210:07	-215:13	-220:19	027
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033	38:54	-174:15	-178:21	-182:27	-187:33	-192:39	-197:45	-202:51	-207:57	-213:03	-218:09	-223:15	033
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042	26:00	-177:46	-181:52	-185:58	-191:04	-196:10	-201:16	-206:22	-211:28	-216:34	-221:40	-226:46	042
043	24:33	-178:08	-182:14	-186:20	-191:26	-196:32	-201:38	-206:44	-211:50	-216:56	-222:02	-227:08	043
044	23:07	-178:28	-182:34	-186:40	-191:46	-196:52	-202:08	-207:14	-212:20	-217:26	-222:32	-227:38	044
045	21:40	-178:49	-182:55	-187:01	-192:07	-197:13	-202:19	-207:25	-212:31	-217:37	-222:43	-227:49	045
046	20:14	-179:09	-183:15	-187:21	-192:27	-197:33	-202:39	-207:45	-212:51	-217:57	-223:03	-228:09	046
047	18:47	-179:29	-183:35	-187:41	-192:47	-197:53	-203:09	-208:15	-213:21	-218:27	-223:33	-228:39	047
048	17:21	-179:49	-183:55	-188:01	-193:07	-198:13	-203:19	-208:25	-213:31	-218:37	-223:43	-228:49	048
049	15:54	-179:52	-184:08	-188:14	-193:20	-198:26	-203:32	-208:38	-213:44	-218:50	-223:56	-229:02	049

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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
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051	13:01	179113	177141	176108	175135	174103	173130	172157	171124	170151	169128	082	13:01	051
052	11:34	178122	177154	176121	175148	174115	173142	172169	171136	170163	169130	083	11:34	052
053	10:07	178136	177103	175130	174157	173124	172151	171118	170145	169112	168139	084	10:07	053
054	8:41	178117	176144	175111	174134	173101	172128	171155	170122	169149	168116	085	8:41	054
055	7:14	177158	176125	175148	174121	173144	172117	171144	170111	169138	168105	086	7:14	055
056	5:47	177140	176107	175130	174153	173126	172149	171122	170145	169118	168141	087	5:47	056
057	4:20	177121	175148	174121	173144	172117	171144	170111	169138	168111	167134	088	4:20	057
058	2:54	177103	175130	174153	173126	172149	171122	170145	169118	168141	167114	089	2:54	058
059	1:27	176144	175112	174135	173108	172131	171154	170127	169150	168123	167146	090	1:27	059
060	0:00	176126	174153	173126	172149	171122	170145	169118	168141	167114	166137	091	0:00	060
061	-1:27	176107	174135	173108	172131	171154	170127	169150	168123	167146	166119	092	-1:27	061
062	-2:54	175149	173126	172149	171122	170145	169118	168141	167114	166137	165110	093	-2:54	062
063	-4:20	175131	173108	172131	171154	170127	169150	168123	167146	166119	165142	094	-4:20	063
064	-5:47	175112	173139	172143	171116	170139	169102	168125	167148	166121	165144	095	-5:47	064
065	-7:14	174153	173121	172143	171116	170139	169102	168125	167148	166121	165144	096	-7:14	065
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067	-10:07	174116	173135	172139	171118	170141	169104	168127	167150	166123	165146	098	-10:07	067
068	-11:34	173157	172125	171148	170121	169144	168117	167140	166113	165136	164109	099	-11:34	068
069	-13:01	173138	172106	171129	170152	169115	168138	167161	166124	165147	164120	100	-13:01	069
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071	-15:54	173100	171168	170141	169164	168127	167140	166163	165186	164149	163172	102	-15:54	071
072	-17:21	172140	171108	170131	169154	168117	167140	166163	165186	164149	163172	103	-17:21	072
073	-18:47	172121	170148	169171	168134	167157	166120	165143	164166	163189	162152	104	-18:47	073
074	-20:14	172101	170128	169151	168114	167137	166160	165183	164146	163169	162192	105	-20:14	074
075	-21:40	171140	170108	169131	168154	167117	166140	165163	164186	163149	162172	106	-21:40	075
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088	-40:20	166139	165107	164130	163153	162116	161139	160162	159125	158148	157111	119	-40:20	088
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101	-58:42		158:43	157:11			155:38		154:05			152:33	-58:42	101
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103	-61:29		156:52	155:20			153:47		152:14			150:41	-61:29	103
104	-62:51		155:50	154:17			152:44		151:12			149:39	-62:51	104
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106	-65:35		153:28	151:55			150:22		148:49			147:17	-65:35	106
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121	-81:44		90:25	88:53			87:20		85:47			84:15	-81:44	121
122	-81:51		80:15	78:42			77:10		75:37			74:04	-81:51	122
123	-81:44		70:05	68:32			66:59		65:26			63:53	-81:44	123
124	-81:22		60:29	58:56			57:23		55:50			54:18	-81:22	124
125	-80:47		51:51	50:18			48:46		47:13			45:40	-80:47	125
126	-80:02		44:22	42:49			41:16		39:44			38:11	-80:02	126
127	-79:08		37:59	36:27			34:54		33:21			31:48	-79:08	127
128	-78:08		32:36	31:04			29:31		27:58			26:26	-78:08	128
129	-77:03		28:04	26:31			24:58		23:26			21:53	-77:03	129
130	-75:54		24:13	22:40			21:07		19:35			18:02	-75:54	130
131	-74:43		20:15	18:43			17:10		15:38			14:05	-74:43	131
132	-73:29		16:06	14:33			13:01		11:29			10:55	-73:29	132
133	-72:13		15:39	14:06			12:33		11:01			9:28	-72:13	133
134	-70:55		13:30	11:57			10:25		8:52			7:19	-70:55	134
135	-69:37		11:36	10:04			8:31		6:58			5:25	-69:37	135
136	-68:17		9:55	8:22			6:50		5:17			3:44	-68:17	136
137	-66:57		8:24	6:52			5:19		3:46			2:13	-66:57	137
138	-65:35		7:02	5:30			3:57		2:24			0:52	-65:35	138
139	-64:14		5:48	4:15			2:43		1:10			0:33	-64:14	139
140	-62:51		4:40	3:07			1:35		0:02			0:25	-62:51	140
141	-61:29		3:38	2:05			0:32		1:00			0:23	-61:29	141
142	-60:06		2:40	1:07			0:25		1:52			0:25	-60:06	142
143	-58:42		1:47	0:14			0:19		1:46			0:19	-58:42	143
144	-57:19		0:57	0:24			0:19		1:46			0:19	-57:19	144
145	-55:55		0:10	0:13			0:13		1:46			0:13	-55:55	145
146	-54:31		0:13	0:16			0:16		1:46			0:16	-54:31	146
147	-53:06		1:15	2:18			4:20		5:12			7:26	-53:06	147

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149	-50:17	-	2131	-	4104	-	5137	-	7109	-	8142	-	10115	-	1147	-	-50:17	149
150	-48:52	-	3106	-	4139	-	6112	-	7145	-	9117	-	10150	-	12123	-	-48:52	150
151	-47:27	-	3140	-	5113	-	6146	-	8118	-	9151	-	11124	-	12156	-	-47:27	151
152	-46:02	-	4112	-	5145	-	7118	-	8151	-	10123	-	11156	-	13129	-	-46:02	152
153	-44:37	-	4143	-	6116	-	7149	-	9121	-	10154	-	12127	-	14100	-	-44:37	153
154	-43:11	-	5113	-	6146	-	8119	-	9151	-	11124	-	12157	-	14129	-	-43:11	154
155	-41:46	-	5142	-	7115	-	8147	-	10120	-	11153	-	13125	-	14158	-	-41:46	155
156	-40:20	-	6110	-	7142	-	9115	-	10148	-	12120	-	13153	-	15126	-	-40:20	156
157	-38:54	-	6136	-	8109	-	9142	-	11114	-	12147	-	14120	-	15153	-	-38:54	157
158	-37:29	-	7102	-	8135	-	10108	-	11140	-	13113	-	14146	-	16119	-	-37:29	158
159	-36:03	-	7128	-	9100	-	10133	-	12106	-	13138	-	15111	-	16144	-	-36:03	159
160	-34:37	-	7152	-	9125	-	10158	-	12130	-	14103	-	15136	-	16144	-	-34:37	160
161	-33:11	-	8116	-	9149	-	11121	-	12154	-	14127	-	16100	-	17132	-	-33:11	161
162	-31:45	-	8139	-	10112	-	11145	-	13118	-	14150	-	16123	-	17156	-	-31:45	162
163	-30:18	-	9102	-	10135	-	12108	-	13140	-	15133	-	16146	-	18118	-	-30:18	163
164	-28:52	-	9125	-	10157	-	12130	-	14103	-	15135	-	17130	-	18141	-	-28:52	164
165	-27:26	-	9147	-	11119	-	12152	-	14125	-	15157	-	17130	-	19103	-	-27:26	165
166	-26:00	-	10108	-	11141	-	13133	-	14146	-	16140	-	17152	-	19124	-	-26:00	166
167	-24:33	-	10129	-	12102	-	13155	-	15107	-	16140	-	18113	-	19124	-	-24:33	167
168	-23:07	-	10150	-	12123	-	13155	-	15128	-	17101	-	18133	-	19106	-	-23:07	168
169	-21:40	-	11110	-	12143	-	14136	-	16109	-	17121	-	18154	-	20127	-	-21:40	169
170	-20:14	-	11131	-	13103	-	14156	-	16129	-	18101	-	19134	-	21107	-	-20:14	170
171	-18:47	-	11151	-	13123	-	14156	-	16129	-	18101	-	19134	-	21107	-	-18:47	171
172	-17:21	-	12110	-	13143	-	15116	-	16148	-	18121	-	19154	-	21127	-	-17:21	172
173	-15:54	-	12130	-	14103	-	15135	-	17108	-	18141	-	20113	-	21156	-	-15:54	173
174	-14:27	-	12149	-	14122	-	15155	-	17127	-	18141	-	20113	-	22105	-	-14:27	174
175	-13:01	-	13108	-	14141	-	16114	-	17146	-	19119	-	20152	-	22124	-	-13:01	175
176	-11:34	-	13127	-	15100	-	16132	-	18124	-	19138	-	21111	-	23102	-	-11:34	176
177	-10:07	-	13146	-	15119	-	16152	-	18143	-	20114	-	21148	-	23102	-	-10:07	177
178	-8:41	-	14105	-	15138	-	17129	-	18143	-	20114	-	21148	-	23102	-	-8:41	178
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181	-4:20	-	15101	-	16133	-	18106	-	19129	-	21111	-	22144	-	24117	-	-4:20	181
182	-2:54	-	15119	-	16152	-	18124	-	19157	-	21148	-	23103	-	24135	-	-2:54	182
183	-1:27	-	15137	-	17110	-	18143	-	20115	-	21148	-	23121	-	24135	-	-1:27	183
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185	1:27	-	16114	-	17147	-	19120	-	20152	-	22125	-	23158	-	25130	-	1:27	185
186	2:54	-	16133	-	18105	-	19138	-	21111	-	22144	-	24116	-	25139	-	2:54	186
187	4:20	-	16151	-	18124	-	19157	-	21129	-	23102	-	24135	-	26107	-	4:20	187
188	5:47	-	17110	-	18142	-	20115	-	21148	-	23103	-	24135	-	26107	-	5:47	188
189	7:14	-	17128	-	18160	-	20134	-	21165	-	23139	-	25112	-	26107	-	7:14	189
190	8:41	-	17147	-	19120	-	20152	-	22125	-	23158	-	25130	-	27103	-	8:41	190
191	10:07	-	18106	-	19138	-	21111	-	22144	-	24116	-	25139	-	27103	-	10:07	191
192	11:34	-	18124	-	19157	-	21148	-	23103	-	24135	-	26107	-	27103	-	11:34	192
193	13:01	-	18143	-	20116	-	21149	-	23122	-	24154	-	26127	-	28100	-	13:01	193
194	14:27	-	19103	-	20135	-	22108	-	23141	-	25133	-	26127	-	28100	-	14:27	194
195	15:54	-	19122	-	20155	-	22127	-	23160	-	25133	-	26127	-	28100	-	15:54	195
196	17:21	-	19141	-	21114	-	22147	-	23179	-	25152	-	27125	-	28100	-	17:21	196

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---	-----	----	---	---	---	---	---	---	---	---	---	-----	-----	---
197	18:47	-	20:01	-	21:34	-	23:06	-	24:39	-	26:12	-	27:45	197
198	20:14	-	20:21	-	21:54	-	23:26	-	24:59	-	26:32	-	28:05	198
199	21:40	-	20:41	-	22:14	-	23:47	-	25:19	-	26:52	-	28:25	199
200	23:07	-	21:02	-	22:34	-	24:07	-	25:40	-	27:12	-	28:45	200
201	24:33	-	21:22	-	22:55	-	24:28	-	26:01	-	27:35	-	29:06	201
202	26:00	-	21:44	-	23:16	-	24:49	-	26:22	-	27:54	-	29:27	202
203	27:26	-	22:05	-	23:38	-	25:11	-	26:43	-	28:16	-	29:49	203
204	28:52	-	22:27	-	24:00	-	25:32	-	27:05	-	28:38	-	30:11	204
205	30:18	-	22:49	-	24:22	-	25:55	-	27:27	-	29:00	-	30:33	205
206	31:45	-	23:12	-	24:45	-	26:18	-	27:50	-	29:23	-	31:56	206
207	33:11	-	23:36	-	25:08	-	26:41	-	28:14	-	29:46	-	31:19	207
208	34:37	-	24:00	-	25:32	-	27:05	-	28:38	-	30:10	-	31:43	208
209	36:03	-	24:24	-	25:57	-	27:29	-	29:02	-	30:35	-	32:08	209
210	37:29	-	24:49	-	26:22	-	27:55	-	29:27	-	31:00	-	32:33	210
211	38:54	-	25:15	-	26:48	-	28:21	-	29:54	-	31:26	-	32:59	211
212	40:20	-	25:42	-	27:15	-	28:48	-	30:20	-	31:53	-	33:26	212
213	41:46	-	26:10	-	27:43	-	29:15	-	30:48	-	32:21	-	33:53	213
214	43:11	-	26:38	-	28:11	-	29:44	-	31:17	-	32:50	-	34:22	214
215	44:37	-	27:08	-	28:41	-	30:14	-	31:46	-	33:19	-	34:52	215
216	46:02	-	27:39	-	29:12	-	30:45	-	32:17	-	33:50	-	35:23	216
217	47:27	-	28:11	-	29:44	-	31:17	-	32:50	-	34:22	-	35:55	217
218	48:52	-	28:45	-	30:18	-	31:51	-	33:23	-	34:56	-	36:29	218
219	50:17	-	29:20	-	30:53	-	32:26	-	33:59	-	35:31	-	37:04	219
220	51:42	-	29:58	-	31:30	-	33:03	-	34:36	-	36:08	-	37:41	220
221	53:06	-	30:37	-	32:09	-	33:42	-	35:15	-	36:47	-	38:20	221
222	54:31	-	31:18	-	32:51	-	34:23	-	35:56	-	37:29	-	39:01	222
223	55:55	-	32:02	-	33:34	-	35:07	-	36:40	-	38:13	-	39:45	223
224	57:19	-	32:48	-	34:21	-	35:54	-	37:27	-	39:13	-	40:32	224
225	58:42	-	33:38	-	35:11	-	36:44	-	38:16	-	40:03	-	41:22	225
226	60:06	-	34:32	-	36:04	-	37:37	-	39:10	-	40:43	-	42:15	226
227	61:29	-	35:29	-	37:02	-	38:35	-	40:07	-	41:30	-	43:15	227
228	62:51	-	36:12	-	37:40	-	39:17	-	40:50	-	42:13	-	44:18	228
229	64:14	-	37:40	-	39:12	-	40:45	-	42:18	-	43:13	-	45:23	229
230	65:35	-	38:54	-	40:27	-	41:59	-	43:32	-	44:15	-	46:30	230
231	66:57	-	40:16	-	41:49	-	43:21	-	44:54	-	45:12	-	47:39	231
232	68:17	-	41:47	-	43:19	-	44:52	-	46:25	-	46:27	-	48:51	232
233	69:37	-	43:28	-	45:01	-	46:33	-	48:06	-	48:39	-	51:11	233
234	70:55	-	45:22	-	46:54	-	48:27	-	50:00	-	51:32	-	53:05	234
235	72:13	-	47:31	-	49:03	-	50:36	-	52:09	-	53:14	-	55:14	235
236	73:29	-	49:58	-	51:10	-	53:03	-	54:36	-	56:09	-	57:41	236
237	74:43	-	52:47	-	53:27	-	55:53	-	57:26	-	59:58	-	60:31	237
238	75:54	-	56:05	-	57:37	-	59:10	-	61:43	-	64:15	-	65:48	238
239	77:03	-	59:56	-	61:28	-	63:01	-	64:34	-	66:06	-	67:39	239
240	78:03	-	64:28	-	66:01	-	67:33	-	69:06	-	70:39	-	72:12	240
241	79:08	-	69:51	-	71:24	-	73:16	-	74:29	-	76:02	-	77:34	241
242	80:47	-	76:13	-	77:46	-	79:59	-	80:52	-	82:24	-	83:57	242
243	81:22	-	83:43	-	85:15	-	86:48	-	88:21	-	89:54	-	91:26	243
244	81:22	-	92:20	-	93:53	-	95:26	-	96:59	-	98:31	-	100:04	244
245	81:44	-	101:56	-	103:29	-	105:02	-	106:34	-	108:07	-	109:40	245

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247	81:44		-112:07									-119:50	81:44	247
248	81:22		-122:17									-130:01	81:22	248
			-131:53									-139:37		
												-128:20		
												-130:10		
												-131:09		
												-128:23		
												-131:33		
												-131:09		

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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
			085	086	087	088	089	090	091					
001	80:47	-126:36	-128:09	-129:42	-131:14	-132:47	-134:20	-135:52	80:47	001				
002	80:02	-134:05	-135:38	-137:11	-138:44	-140:16	-141:49	-143:22	80:02	002				
003	79:08	-140:28	-142:01	-143:33	-145:06	-146:39	-148:12	-149:44	79:08	003				
004	78:08	-145:51	-147:24	-148:56	-150:29	-152:02	-153:34	-155:07	78:08	004				
005	77:03	-150:23	-151:56	-153:29	-155:02	-156:34	-158:07	-159:40	77:03	005				
006	75:54	-154:14	-155:47	-157:20	-158:53	-160:25	-161:58	-163:31	75:54	006				
007	74:43	-157:32	-159:04	-160:37	-162:10	-163:42	-165:15	-166:48	74:43	007				
008	73:29	-160:12	-161:54	-163:27	-164:59	-166:32	-168:05	-169:37	73:29	008				
009	72:13	-162:49	-164:21	-165:54	-167:27	-168:59	-170:32	-172:05	72:13	009				
010	70:55	-164:57	-166:30	-168:03	-169:35	-171:08	-172:41	-174:14	70:55	010				
011	69:37	-166:51	-168:24	-169:56	-171:29	-173:02	-174:35	-176:07	69:37	011				
012	68:17	-168:32	-170:05	-171:38	-173:10	-174:43	-176:16	-177:49	68:17	012				
013	66:57	-170:03	-171:36	-173:08	-174:41	-176:14	-177:47	-179:19	66:57	013				
014	65:35	-171:25	-172:58	-174:30	-176:03	-177:36	-179:08	-179:19	65:35	014				
015	64:14	-172:39	-174:12	-175:45	-177:18	-178:50	-180:23	-181:56	64:14	015				
016	62:51	-173:47	-175:20	-176:53	-178:26	-179:59	-181:32	-183:05	62:51	016				
017	61:29	-174:50	-176:22	-177:55	-179:28	-181:00	-182:33	-184:06	61:29	017				
018	60:06	-175:47	-177:20	-178:53	-180:26	-181:59	-183:32	-185:05	60:06	018				
019	58:42	-176:41	-178:14	-179:46	-181:19	-182:52	-184:25	-185:58	58:42	019				
020	57:19	-177:31	-179:04	-180:37	-182:10	-183:43	-185:16	-186:49	57:19	020				
021	55:55	-178:17	-179:50	-181:23	-182:56	-184:29	-186:02	-187:35	55:55	021				
022	54:31	-179:01	-180:34	-182:07	-183:40	-185:13	-186:46	-188:19	54:31	022				
023	53:05	-179:42	-181:15	-182:48	-184:21	-185:54	-187:27	-189:00	53:05	023				
024	51:42	-179:39	-181:12	-182:45	-184:18	-185:51	-187:24	-188:57	51:42	024				
025	50:17	-179:02	-180:35	-182:08	-183:41	-185:14	-186:47	-188:20	50:17	025				
026	48:52	-178:26	-180:00	-181:33	-183:06	-184:39	-186:12	-187:45	48:52	026				
027	47:27	-177:53	-179:26	-180:59	-182:32	-184:05	-185:38	-187:11	47:27	027				
028	46:02	-177:20	-178:53	-180:26	-181:59	-183:32	-185:05	-186:38	46:02	028				
029	44:37	-176:49	-178:22	-179:55	-181:28	-183:01	-184:34	-186:07	44:37	029				
030	43:11	-176:12	-177:45	-179:18	-180:51	-182:24	-183:57	-185:30	43:11	030				
031	41:46	-175:51	-177:24	-178:57	-180:30	-182:03	-183:36	-185:09	41:46	031				
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ROW	LATITUDE	PATH	L	U	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
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002	80:02		-144:54	-146:27	-148:00	-149:33	-151:05	-152:38	-154:10	-155:43	-157:15	-158:48	-160:20	-161:53	-163:25	80:02	002
003	79:08		-151:17	-152:50	-154:22	-155:55	-157:27	-159:00	-160:33	-162:05	-163:38	-165:10	-166:43	-168:15	-169:48	79:08	003
004	78:08		-156:40	-158:12	-159:45	-161:18	-162:50	-164:23	-165:55	-167:27	-169:00	-170:33	-172:05	-173:38	-175:10	78:08	004
005	77:03		-161:12	-162:45	-164:18	-165:50	-167:23	-168:55	-170:28	-172:00	-173:33	-175:05	-176:38	-178:10	-179:43	77:03	005
006	75:54		-165:03	-166:36	-168:09	-169:41	-171:14	-172:47	-174:19	-175:52	-177:25	-178:57	-180:30	-182:03	-183:36	75:54	006
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146	-54:31	22:12	23:44	25:17	26:50	28:22	29:55	31:28	31:28	31:28	31:28	31:28	-54:31	146
147	-53:06	22:53	24:26	25:58	27:31	29:04	30:36	32:09	32:09	32:09	32:09	32:09	-53:06	147

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PATH/ROW TO LATITUDE/LONGITUDE
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149	-30:17	-	24:09	-	25:42	-	27:14	-	28:47	-	30:20	-	31:53	-	-30:17	149
150	-48:52	-	24:44	-	26:17	-	27:50	-	29:22	-	30:55	-	32:28	-	-48:52	150
151	-47:27	-	25:18	-	26:51	-	28:23	-	29:56	-	31:29	-	33:02	-	-47:27	151
152	-46:02	-	25:50	-	27:23	-	28:56	-	30:28	-	32:01	-	33:34	-	-46:02	152
153	-44:37	-	26:21	-	27:54	-	29:27	-	30:59	-	32:32	-	34:05	-	-44:37	153
154	-43:11	-	26:51	-	28:24	-	29:56	-	31:29	-	33:02	-	34:35	-	-43:11	154
155	-41:46	-	27:20	-	28:52	-	30:25	-	31:58	-	33:30	-	35:03	-	-41:46	155
156	-40:20	-	27:47	-	29:20	-	30:53	-	32:25	-	33:58	-	35:31	-	-40:20	156
157	-38:54	-	28:14	-	29:47	-	31:20	-	32:52	-	34:25	-	35:58	-	-38:54	157
158	-37:29	-	28:40	-	30:13	-	31:46	-	33:18	-	34:51	-	36:24	-	-37:29	158
159	-36:03	-	29:05	-	30:38	-	32:11	-	33:44	-	35:16	-	36:49	-	-36:03	159
160	-34:37	-	29:30	-	31:03	-	32:35	-	34:08	-	35:41	-	37:13	-	-34:37	160
161	-33:11	-	29:54	-	31:27	-	32:59	-	34:32	-	36:05	-	37:37	-	-33:11	161
162	-31:45	-	30:17	-	31:50	-	33:23	-	35:05	-	36:38	-	38:01	-	-31:45	162
163	-30:18	-	30:40	-	32:13	-	33:46	-	35:18	-	37:01	-	38:24	-	-30:18	163
164	-28:52	-	31:02	-	32:35	-	34:08	-	35:41	-	37:13	-	38:46	-	-28:52	164
165	-27:26	-	31:24	-	32:57	-	34:30	-	36:03	-	37:35	-	39:08	-	-27:26	165
166	-26:00	-	31:46	-	33:19	-	34:51	-	36:24	-	37:57	-	39:29	-	-26:00	166
167	-24:33	-	32:07	-	33:40	-	35:12	-	36:45	-	38:19	-	40:11	-	-24:33	167
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172	-17:21	-	33:48	-	35:21	-	36:54	-	38:26	-	39:59	-	41:51	-	-17:21	172
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174	-14:27	-	34:27	-	36:00	-	37:32	-	39:05	-	40:38	-	42:30	-	-14:27	174
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176	-11:34	-	35:05	-	36:38	-	38:11	-	39:43	-	41:16	-	43:07	-	-11:34	176
177	-10:07	-	35:24	-	36:57	-	38:29	-	40:02	-	41:35	-	43:26	-	-10:07	177
178	-8:41	-	35:43	-	37:15	-	38:48	-	40:21	-	41:54	-	43:45	-	-8:41	178
179	-7:14	-	36:01	-	37:34	-	39:07	-	40:39	-	42:12	-	44:03	-	-7:14	179
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181	-4:20	-	36:38	-	38:11	-	39:44	-	41:17	-	42:49	-	44:40	-	-4:20	181
182	-2:54	-	36:57	-	38:30	-	40:02	-	41:35	-	43:08	-	44:59	-	-2:54	182
183	-1:27	-	37:15	-	38:48	-	40:21	-	41:54	-	43:26	-	45:17	-	-1:27	183
184	0:00	-	37:34	-	39:06	-	40:39	-	42:12	-	43:44	-	45:36	-	0:00	184
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187	4:20	-	38:29	-	40:02	-	41:34	-	43:40	-	45:17	-	46:31	-	4:20	187
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189	7:14	-	39:06	-	40:37	-	42:11	-	44:14	-	45:57	-	47:08	-	7:14	189
190	8:41	-	39:25	-	40:57	-	42:30	-	44:32	-	46:15	-	47:26	-	8:41	190
191	10:07	-	39:43	-	41:16	-	42:49	-	44:51	-	46:38	-	47:46	-	10:07	191
192	11:34	-	40:02	-	41:35	-	43:08	-	45:18	-	46:51	-	48:05	-	11:34	192
193	13:01	-	40:21	-	41:54	-	43:27	-	45:39	-	47:12	-	48:24	-	13:01	193
194	14:27	-	40:40	-	42:13	-	43:46	-	45:58	-	47:31	-	48:43	-	14:27	194
195	15:54	-	41:00	-	42:32	-	44:05	-	46:18	-	47:51	-	49:03	-	15:54	195
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199	21:40	- 42:19	- 43:52	- 45:24	- 46:57	- 48:30	- 49:52	- 51:25	- 52:58	- 54:31	- 56:04	21:40	199	21:40	199	
200	23:07	- 42:40	- 44:12	- 45:45	- 47:18	- 48:51	- 50:24	- 51:57	- 53:30	- 55:03	- 56:36	23:07	200	23:07	200	
201	24:33	- 43:00	- 44:33	- 46:06	- 47:39	- 49:12	- 50:45	- 52:18	- 53:51	- 55:24	- 56:57	24:33	201	24:33	201	
202	26:00	- 43:21	- 44:54	- 46:27	- 48:00	- 49:33	- 51:06	- 52:39	- 54:12	- 55:45	- 57:18	26:00	202	26:00	202	
203	27:26	- 43:43	- 45:16	- 46:49	- 48:22	- 49:55	- 51:28	- 53:01	- 54:34	- 56:07	- 57:40	27:26	203	27:26	203	
204	28:52	- 44:05	- 45:38	- 47:11	- 48:44	- 50:17	- 51:50	- 53:23	- 54:56	- 56:29	- 58:02	28:52	204	28:52	204	
205	30:18	- 44:27	- 46:00	- 47:33	- 49:06	- 50:39	- 52:12	- 53:45	- 55:18	- 56:51	- 58:24	30:18	205	30:18	205	
206	31:45	- 44:50	- 46:23	- 47:56	- 49:29	- 51:02	- 52:35	- 54:08	- 55:41	- 57:14	- 58:47	31:45	206	31:45	206	
207	33:11	- 45:13	- 46:46	- 48:19	- 49:52	- 51:25	- 52:58	- 54:31	- 56:04	- 57:37	- 59:10	33:11	207	33:11	207	
208	34:37	- 45:37	- 47:10	- 48:43	- 50:16	- 51:49	- 53:22	- 54:55	- 56:28	- 58:01	- 59:34	34:37	208	34:37	208	
209	36:03	- 46:02	- 47:35	- 49:07	- 50:40	- 52:13	- 53:46	- 55:19	- 56:52	- 58:25	- 59:58	36:03	209	36:03	209	
210	37:29	- 46:27	- 48:00	- 49:33	- 51:06	- 52:39	- 54:12	- 55:45	- 57:18	- 58:51	- 60:24	37:29	210	37:29	210	
211	38:54	- 46:53	- 48:26	- 49:59	- 51:32	- 53:05	- 54:38	- 56:11	- 57:44	- 59:17	- 60:50	38:54	211	38:54	211	
212	40:20	- 47:20	- 48:53	- 50:26	- 51:59	- 53:32	- 55:05	- 56:38	- 58:11	- 59:44	- 61:17	40:20	212	40:20	212	
213	41:46	- 47:48	- 49:21	- 50:54	- 52:27	- 54:00	- 55:33	- 57:06	- 58:39	- 60:12	- 61:45	41:46	213	41:46	213	
214	43:11	- 48:16	- 49:49	- 51:22	- 52:55	- 54:28	- 56:01	- 57:34	- 59:07	- 60:40	- 62:13	43:11	214	43:11	214	
215	44:37	- 48:46	- 50:19	- 51:52	- 53:25	- 54:58	- 56:31	- 58:04	- 59:37	- 61:10	- 62:43	44:37	215	44:37	215	
216	46:02	- 49:17	- 50:50	- 52:23	- 53:56	- 55:29	- 57:02	- 58:35	- 60:08	- 61:41	- 63:14	46:02	216	46:02	216	
217	47:27	- 49:49	- 51:22	- 52:55	- 54:28	- 56:01	- 57:34	- 59:07	- 60:40	- 62:13	- 63:46	47:27	217	47:27	217	
218	48:52	- 50:23	- 51:56	- 53:29	- 55:02	- 56:35	- 58:08	- 59:41	- 61:14	- 62:47	- 64:20	48:52	218	48:52	218	
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223	55:55	- 53:40	- 55:13	- 56:46	- 58:19	- 59:52	- 61:25	- 62:58	- 64:31	- 66:04	- 67:37	55:55	223	55:55	223	
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226	60:06	- 56:10	- 57:42	- 59:15	- 60:48	- 62:21	- 63:54	- 65:27	- 67:00	- 68:33	- 70:06	60:06	226	60:06	226	
227	61:29	- 57:07	- 58:40	- 60:13	- 61:46	- 63:19	- 64:52	- 66:25	- 67:58	- 69:31	- 71:04	61:29	227	61:29	227	
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236	73:29	- 71:36	- 73:08	- 74:41	- 76:14	- 77:47	- 79:20	- 80:53	- 82:26	- 83:59	- 85:32	73:29	236	73:29	236	
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238	75:54	- 77:42	- 79:15	- 80:48	- 82:21	- 83:54	- 85:27	- 87:00	- 88:33	- 89:56	- 91:29	75:54	238	75:54	238	
239	77:03	- 81:33	- 83:06	- 84:39	- 86:12	- 87:45	- 89:18	- 90:51	- 92:24	- 93:57	- 95:30	77:03	239	77:03	239	
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241	79:08	- 91:29	- 93:02	- 94:35	- 96:08	- 97:41	- 99:14	- 100:47	- 102:20	- 103:53	- 105:26	79:08	241	79:08	241	
242	80:02	- 97:51	- 99:24	- 100:57	- 102:30	- 104:03	- 105:36	- 107:09	- 108:42	- 110:15	- 111:48	80:02	242	80:02	242	
243	80:47	- 105:21	- 106:54	- 108:27	- 109:60	- 111:33	- 113:06	- 114:39	- 116:12	- 117:45	- 119:18	80:47	243	80:47	243	
244	81:22	- 113:58	- 115:31	- 117:04	- 118:37	- 120:10	- 121:43	- 123:16	- 124:49	- 126:22	- 127:55	81:22	244	81:22	244	
245	81:44	- 123:34	- 125:07	- 126:40	- 128:13	- 129:46	- 131:19	- 132:52	- 134:25	- 135:58	- 137:31	81:44	245	81:44	245	

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			092	093	094	095	096	097	098					
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247	81:44	-143:55	-145:28	-147:00	-148:33	-150:06	-151:38	-153:11					81:44	247
248	81:22	-153:31	-155:04	-156:36	-158:09	-159:42	-161:14	-162:47					81:22	249

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001	80:47	-148:14	-149:47	100	101	102	103	104	105			-151:30	80:47	001
002	80:02	-155:43	-157:16	100	101	102	103	104	105			-163:27	80:02	002
003	79:08	-162:06	-163:39	100	101	102	103	104	105			-169:49	79:08	003
004	78:08	-167:29	-169:01	100	101	102	103	104	105			-175:12	78:08	004
005	77:03	-172:01	-173:34	100	101	102	103	104	105			-178:12	77:03	005
006	75:54	-175:52	-177:25	100	101	102	103	104	105			-179:45	75:54	006
007	74:43	-179:09	-179:18	100	101	102	103	104	105			-179:45	74:43	007
008	73:29	-178:01	-178:28	100	101	102	103	104	105			-179:45	73:29	008
009	72:13	-175:34	-176:01	100	101	102	103	104	105			-179:45	72:13	009
010	70:55	-173:25	-174:52	100	101	102	103	104	105			-179:45	70:55	010
011	69:37	-171:31	-172:58	100	101	102	103	104	105			-179:45	69:37	011
012	68:17	-169:50	-171:17	100	101	102	103	104	105			-179:45	68:17	012
013	66:57	-168:19	-169:46	100	101	102	103	104	105			-179:45	66:57	013
014	65:35	-166:57	-168:25	100	101	102	103	104	105			-179:45	65:35	014
015	64:14	-165:43	-167:10	100	101	102	103	104	105			-179:45	64:14	015
016	62:51	-164:35	-166:02	100	101	102	103	104	105			-179:45	62:51	016
017	61:29	-163:33	-165:00	100	101	102	103	104	105			-179:45	61:29	017
018	60:06	-162:35	-164:02	100	101	102	103	104	105			-179:45	60:06	018
019	58:42	-161:41	-163:09	100	101	102	103	104	105			-179:45	58:42	019
020	57:19	-160:52	-162:19	100	101	102	103	104	105			-179:45	57:19	020
021	55:55	-160:05	-161:32	100	101	102	103	104	105			-179:45	55:55	021
022	54:31	-159:21	-160:48	100	101	102	103	104	105			-179:45	54:31	022
023	53:06	-158:40	-159:57	100	101	102	103	104	105			-179:45	53:06	023
024	51:42	-158:01	-159:18	100	101	102	103	104	105			-179:45	51:42	024
025	50:17	-157:24	-158:41	100	101	102	103	104	105			-179:45	50:17	025
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033	38:54	-153:19	-154:46	100	101	102	103	104	105			-179:45	38:54	033
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049	15:54	-147:25	-148:52	100	101	102	103	104	105			-179:45	15:54	049

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
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051	13101	146147	145114	143101	142108	140136	139103	137130	13101	051				
052	11134	146155	144155	143122	141149	140117	139144	137111	11134	052				
053	10107	146109	144136	143103	141121	139158	138125	136153	10107	053				
054	8141	145150	144117	142126	140153	139139	138106	136134	8141	054				
055	7114	145131	143159	142126	140153	139121	137148	136115	7114	055				
056	5147	145113	143140	142107	140135	139102	137129	135157	5147	056				
057	4120	144154	143122	141139	140116	138143	137111	135138	4120	057				
058	2154	144136	143103	141130	139158	138125	136152	135120	2154	058				
059	1127	143117	142145	141112	139139	138107	136134	135101	1127	059				
060	0100	143159	142126	140154	139121	137148	136116	135143	0100	060				
061	-1127	143141	142108	140135	139103	137130	136157	135124	-1127	061				
062	-2154	143122	141149	140117	139158	138125	136153	135120	-2154	062				
063	-3147	143104	141131	139140	138107	136134	135102	133129	-3147	063				
064	-4120	142145	141113	139121	138107	136116	134123	133110	-4120	064				
065	-5147	142127	140154	139111	137149	136116	134123	133152	-5147	065				
066	-6141	142108	140135	139103	137111	135136	134106	133152	-6141	066				
067	-7114	141149	140117	138125	137149	135136	134106	133152	-7114	067				
068	-8141	141130	139158	138125	137149	135136	134106	133152	-8141	068				
069	-9127	141111	139139	138106	136134	135120	133123	132114	-9127	069				
070	-10107	140152	139120	137147	136114	135101	133128	132114	-10107	070				
071	-11134	140133	139100	137128	136155	135142	133109	132117	-11134	071				
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075	-15154	139114	137141	136108	134136	133103	131110	129137	-15154	075				
076	-16147	138153	137120	135148	134115	132142	131110	129137	-16147	076				
077	-17121	138132	137100	135127	134136	132100	130128	128156	-17121	077				
078	-18147	138111	136139	135106	133112	131139	130106	128156	-18147	078				
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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
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100	-57:19	127:06	125:34	124:01	123:20	121:56	120:23	118:50	100	-57:19	127:06	100	-57:19	100
101	-58:42	126:17	124:44	123:11	122:39	121:06	109:33	117:00	101	-58:42	126:17	101	-58:42	101
102	-60:06	125:23	123:50	122:18	121:45	119:12	117:40	116:07	102	-60:06	125:23	102	-60:06	102
103	-61:29	124:26	122:53	121:20	120:47	119:15	117:42	116:09	103	-61:29	124:26	103	-61:29	103
104	-62:51	123:23	121:50	120:18	119:45	118:12	116:40	115:07	104	-62:51	123:23	104	-62:51	104
105	-64:14	122:15	120:42	119:10	118:37	117:04	115:32	113:59	105	-64:14	122:15	105	-64:14	105
106	-65:35	121:01	119:28	117:53	117:20	115:47	114:14	112:41	106	-65:35	121:01	106	-65:35	106
107	-66:57	119:39	118:06	116:34	115:01	113:28	111:55	110:23	107	-66:57	119:39	107	-66:57	107
108	-68:17	118:08	116:36	115:03	113:30	111:57	110:25	108:52	108	-68:17	118:08	108	-68:17	108
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ROW	LATITUDE	PATHS	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
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176	-11:34	- 45:54	- 47:27	- 48:59	- 50:32	- 52:05	- 53:38	- 55:10	- 56:42	- 58:14	- 59:46	- 61:18	-11:34	176
177	-10:07	- 46:13	- 47:46	- 49:18	- 50:51	- 52:24	- 53:56	- 55:28	- 57:00	- 58:32	- 60:04	- 61:36	-10:07	177
178	-8:41	- 46:32	- 48:04	- 49:37	- 51:10	- 52:42	- 54:14	- 55:46	- 57:18	- 58:50	- 60:22	- 61:54	-8:41	178
179	-7:14	- 46:50	- 48:23	- 49:56	- 51:29	- 53:01	- 54:33	- 56:05	- 57:37	- 59:09	- 60:41	- 62:13	-7:14	179
180	-5:47	- 47:09	- 48:42	- 50:14	- 51:47	- 53:20	- 54:52	- 56:24	- 57:56	- 59:28	- 61:00	- 62:32	-5:47	180
181	-4:20	- 47:27	- 49:00	- 50:33	- 52:06	- 53:38	- 55:11	- 56:43	- 58:15	- 59:47	- 61:19	- 62:51	-4:20	181
182	-2:54	- 47:46	- 49:18	- 50:51	- 52:24	- 53:57	- 55:29	- 57:01	- 58:33	- 60:05	- 61:37	- 63:09	-2:54	182
183	-1:27	- 48:04	- 49:37	- 51:10	- 52:42	- 54:14	- 55:46	- 57:18	- 58:50	- 60:22	- 61:54	- 63:26	-1:27	183
184	0:00	- 48:23	- 49:55	- 51:28	- 53:01	- 54:33	- 56:05	- 57:37	- 59:09	- 60:41	- 62:13	- 63:45	0:00	184
185	1:27	- 48:41	- 50:14	- 51:46	- 53:19	- 54:51	- 56:23	- 57:55	- 59:27	- 60:59	- 62:31	- 64:03	1:27	185
186	2:54	- 48:59	- 50:32	- 52:05	- 53:38	- 55:10	- 56:42	- 58:14	- 59:46	- 61:18	- 62:50	- 64:22	2:54	186
187	4:20	- 49:18	- 50:51	- 52:24	- 53:56	- 55:28	- 57:00	- 58:32	- 60:04	- 61:36	- 63:08	- 64:40	4:20	187
188	5:47	- 49:36	- 51:09	- 52:42	- 54:14	- 55:46	- 57:18	- 58:50	- 60:22	- 61:54	- 63:26	- 64:98	5:47	188
189	7:14	- 49:55	- 51:28	- 53:01	- 54:33	- 56:05	- 57:37	- 59:09	- 60:41	- 62:13	- 63:45	- 65:17	7:14	189
190	8:41	- 50:14	- 51:46	- 53:19	- 54:51	- 56:23	- 57:55	- 59:27	- 60:59	- 62:31	- 64:03	- 65:35	8:41	190
191	10:07	- 50:32	- 52:05	- 53:38	- 55:10	- 56:42	- 58:14	- 59:46	- 61:18	- 62:50	- 64:22	- 65:54	10:07	191
192	11:34	- 50:51	- 52:24	- 53:57	- 55:29	- 57:01	- 58:33	- 60:05	- 61:37	- 63:09	- 64:41	- 66:13	11:34	192
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195	15:54	- 51:49	- 53:21	- 54:54	- 56:27	- 57:59	- 59:31	- 61:03	- 62:35	- 64:07	- 65:39	- 67:11	15:54	195
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197	18:47	-	52:28	-	54:01	-	55:33	-	57:06	-	58:39	-	60:11	-	61:44	18:47
198	20:14	-	52:48	-	54:20	-	55:53	-	57:26	-	58:59	-	60:31	-	62:04	20:14
199	21:40	-	53:08	-	54:41	-	56:13	-	57:46	-	59:19	-	60:51	-	62:24	21:40
200	23:07	-	53:28	-	55:01	-	56:34	-	58:07	-	59:39	-	61:12	-	62:45	23:07
201	24:33	-	53:49	-	55:22	-	56:55	-	58:27	-	59:59	-	61:32	-	63:05	24:33
202	26:00	-	54:10	-	55:43	-	57:16	-	58:48	-	60:21	-	61:54	-	63:27	26:00
203	27:26	-	54:32	-	56:05	-	57:37	-	59:10	-	60:43	-	62:15	-	63:48	27:26
204	28:52	-	54:54	-	56:27	-	57:59	-	59:32	-	61:05	-	62:37	-	64:10	28:52
205	30:18	-	55:16	-	56:49	-	58:22	-	59:54	-	61:27	-	63:00	-	64:33	30:18
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208	34:37	-	56:26	-	57:59	-	59:32	-	61:04	-	62:37	-	64:10	-	65:43	34:37
209	36:03	-	56:51	-	58:24	-	59:56	-	61:29	-	63:02	-	64:34	-	66:07	36:03
210	37:29	-	57:16	-	58:49	-	60:22	-	61:54	-	63:27	-	65:00	-	66:32	37:29
211	38:54	-	57:42	-	59:15	-	60:48	-	62:20	-	63:53	-	65:26	-	66:58	38:54
212	40:20	-	58:09	-	59:42	-	61:14	-	62:47	-	64:20	-	65:52	-	67:25	40:20
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214	43:11	-	59:05	-	60:38	-	62:11	-	63:44	-	65:16	-	66:49	-	68:22	43:11
215	44:37	-	59:35	-	61:08	-	62:40	-	64:13	-	65:46	-	67:19	-	68:52	44:37
216	46:02	-	60:06	-	61:39	-	63:11	-	64:44	-	66:17	-	67:50	-	69:23	46:02
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219	50:17	-	61:47	-	63:20	-	64:53	-	66:25	-	67:58	-	69:31	-	71:03	50:17
220	51:42	-	62:24	-	63:57	-	65:30	-	67:02	-	68:35	-	70:08	-	71:41	51:42
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223	55:55	-	64:29	-	66:01	-	67:34	-	69:07	-	70:39	-	72:12	-	73:45	55:55
224	57:19	-	65:15	-	66:48	-	68:21	-	69:54	-	71:26	-	73:00	-	74:33	57:19
225	58:42	-	66:05	-	67:38	-	69:10	-	70:43	-	72:16	-	73:49	-	75:22	58:42
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227	61:29	-	67:56	-	69:29	-	71:02	-	72:34	-	74:07	-	75:40	-	77:13	61:29
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230	65:35	-	71:12	-	72:54	-	74:26	-	75:59	-	77:32	-	79:04	-	80:37	65:35
231	66:57	-	72:43	-	74:15	-	75:48	-	77:21	-	78:54	-	80:26	-	81:59	66:57
232	68:17	-	74:13	-	75:46	-	77:19	-	78:52	-	80:24	-	81:57	-	83:30	68:17
233	69:37	-	75:55	-	77:27	-	79:00	-	80:33	-	82:05	-	83:38	-	85:11	69:37
234	70:55	-	77:48	-	79:21	-	80:54	-	82:27	-	84:00	-	85:33	-	87:06	70:55
235	72:13	-	79:57	-	81:30	-	83:03	-	84:35	-	86:08	-	87:41	-	89:14	72:13
236	73:29	-	82:25	-	83:57	-	85:30	-	87:03	-	88:35	-	90:08	-	91:41	73:29
237	74:43	-	85:14	-	86:47	-	88:20	-	89:52	-	91:25	-	92:58	-	94:31	74:43
238	75:54	-	88:31	-	90:04	-	91:37	-	93:09	-	94:42	-	96:15	-	97:48	75:54
239	77:03	-	91:55	-	93:28	-	95:00	-	96:33	-	98:06	-	99:39	-	101:12	77:03
240	78:08	-	96:55	-	98:28	-	100:00	-	101:33	-	103:06	-	104:39	-	106:12	78:08
241	79:08	-	102:18	-	103:50	-	105:23	-	106:56	-	108:29	-	110:01	-	111:34	79:08
242	80:02	-	108:40	-	110:13	-	111:46	-	113:19	-	114:52	-	116:25	-	117:58	80:02
243	80:47	-	116:10	-	117:42	-	119:15	-	120:48	-	122:21	-	123:54	-	125:27	80:47
244	81:22	-	124:47	-	126:20	-	127:52	-	129:25	-	130:58	-	132:31	-	134:04	81:22
245	81:44	-	134:23	-	135:56	-	137:28	-	139:01	-	140:34	-	142:07	-	143:40	81:44

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---	----	----	----	----	----	----	----	----	----	----	----	----	----
		PATH: 099		100		101		102		103	104		
246	81:51	-144:33	-146:06			-147:39	-149:12	-150:44	-152:17	-153:50		81:51	246
247	81:44	-154:44	-156:17			-157:49	-159:22	-160:55	-162:27	-164:00		81:44	247
248	81:22	-164:20	-165:53			-167:25	-168:58	-170:31	-172:03	-173:36		81:22	248

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LATITUDE
NUM

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IN	LATITUDE	PATH	L O N			T U D E			110	111	112
			106	107	108	109	110	111			
01	80147	-159103	-160136	108	-163141	-165114	-166146	-167149	-168152	-169119	80147
02	80102	-166112	-168105	108	-171110	-172143	-173122	-174122	-175122	-176146	80102
03	79108	-172155	-174127	100	-177133	-178106	-179106	-180106	-181106	-182106	79108
04	78108	-178118	-179150	100	-180106	-181106	-182106	-183106	-184106	-185106	78108
05	77110	-177110	-178118	100	-181106	-182106	-183106	-184106	-185106	-186106	77110
06	76143	170102	168129	100	165137	166146	167149	168149	169149	170149	76143
07	75154	163112	165139	100	160107	161107	162107	163107	164107	165107	75154
08	74143	161112	163112	100	157108	158108	159108	160108	161108	162108	74143
09	73129	162145	164145	100	156104	157104	158104	159104	160104	161104	73129
10	72113	160142	162142	100	155104	156104	157104	158104	159104	160104	72113
11	70155	159101	161101	100	154104	155104	156104	157104	158104	159104	70155
12	69137	157130	159130	100	153104	154104	155104	156104	157104	158104	69137
13	68117	156108	158108	100	152104	153104	154104	155104	156104	157104	68117
14	66157	154154	156154	100	151104	152104	153104	154104	155104	156104	66157
15	65135	152146	154146	100	150104	151104	152104	153104	154104	155104	65135
16	64114	151133	153133	100	149104	150104	151104	152104	153104	154104	64114
17	62151	150113	152113	100	148104	149104	150104	151104	152104	153104	62151
18	61129	149120	151120	100	147104	148104	149104	150104	151104	152104	61129
19	60106	148130	150130	100	146104	147104	148104	149104	150104	151104	60106
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23	54131	144124	146124	100	142104	143104	144104	145104	146104	147104	54131
24	53106	143139	145139	100	141104	142104	143104	144104	145104	146104	53106
25	51142	142159	144159	100	140104	141104	142104	143104	144104	145104	51142
26	50117	141153	143153	100	139104	140104	141104	142104	143104	144104	50117
27	48152	140120	142120	100	138104	139104	140104	141104	142104	143104	48152
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32	41146	135157	137157	100	133104	134104	135104	136104	137104	138104	41146
33	40120	134130	136130	100	132104	133104	134104	135104	136104	137104	40120
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37	34137	130150	132150	100	128104	129104	130104	131104	132104	133104	34137
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40	30118	127152	129152	100	125104	126104	127104	128104	129104	130104	30118
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47	20114	120147	122147	100	118104	119104	120104	121104	122104	123104	20114
48	18147	117121	119121	100	117121	118104	119104	120104	121104	122104	18147
49	17121	116136	118136	100	116136	117121	118104	119104	120104	121104	17121

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052	11:34	135:19	134:06	132:33	131:01	129:28	127:55	126:22	124:49	123:16	121:43	119:10	052
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054	8:41	135:01	133:28	131:55	130:23	128:50	127:17	125:44	124:11	122:38	121:05	109:32	054
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102	-60:06	114:34	113:02	111:29	109:56	108:23	106:56	105:29	104:25	103:26	102:27	101:28	-60:06	102
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198	20114	- 63117	- 65109	- 66142	- 68115	- 69148	- 70120	- 71100	- 72100	- 73100	- 74100	- 75100	20114	198
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202	26100	- 64159	- 65132	- 68105	- 69137	- 71110	- 71132	- 72122	- 73122	- 74122	- 75122	- 76122	26100	202
203	27126	- 65121	- 66154	- 68126	- 69159	- 71110	- 71132	- 72122	- 73122	- 74122	- 75122	- 76122	27126	203
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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
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246	81:51	-155:22	106		107		108		109		110	111	112	---
247	81:44	-165:33		-156:55		-158:28		-160:00		-161:33		-163:06	-164:39	246
248	81:22	-175:09		-167:06		-168:38		-170:11		-171:44		-173:16	-174:49	247
				-176:41		-178:14		-179:47		-181:20		-177:08	-178:35	248

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ROW	LATITUDE	PATH	L	U	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
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002	80:02	-177:121	-178:54	-179:01	-179:33	-179:55	-180:12	80:02	002					
003	79:08	-176:116	-178:44	-179:11	-179:33	-179:55	-180:12	79:08	003					
004	78:08	-170:53	-169:21	-166:15	-167:48	-168:30	-169:05	78:08	004					
005	77:03	-166:121	-164:48	-161:43	-163:15	-164:43	-165:37	77:03	005					
006	75:54	-162:30	-160:57	-157:52	-159:24	-160:10	-160:37	75:54	006					
007	74:43	-159:13	-157:40	-154:35	-156:07	-157:02	-157:29	74:43	007					
008	73:29	-156:123	-154:50	-151:45	-153:18	-154:12	-154:40	73:29	008					
009	72:13	-153:156	-152:23	-149:18	-150:50	-151:42	-152:11	72:13	009					
010	70:55	-151:147	-150:14	-147:09	-148:42	-149:36	-150:03	70:55	010					
011	69:37	-149:153	-148:21	-145:15	-146:48	-147:42	-148:10	69:37	011					
012	68:17	-148:12	-146:39	-143:34	-145:07	-146:01	-146:28	68:17	012					
013	66:57	-146:141	-145:09	-142:03	-143:36	-144:30	-145:00	66:57	013					
014	65:35	-145:119	-143:47	-140:41	-142:14	-143:09	-143:36	65:35	014					
015	64:14	-142:05	-141:24	-138:19	-139:52	-140:46	-141:14	64:14	015					
016	62:51	-141:55	-140:22	-137:11	-138:44	-139:38	-140:06	62:51	016					
017	61:29	-140:57	-139:24	-136:19	-137:52	-138:46	-139:14	61:29	017					
018	60:06	-140:04	-138:31	-135:25	-136:58	-137:53	-138:21	60:06	018					
019	58:42	-139:14	-137:41	-134:36	-136:08	-137:03	-137:31	58:42	019					
020	57:19	-138:27	-136:54	-134:03	-135:33	-136:28	-136:56	57:19	020					
021	55:55	-137:43	-135:11	-133:19	-134:38	-135:32	-136:00	55:55	021					
022	54:31	-137:02	-134:29	-131:28	-132:51	-133:45	-134:13	54:31	022					
023	53:06	-136:23	-133:50	-129:18	-130:25	-131:19	-131:47	53:06	023					
024	51:42	-135:46	-133:13	-128:32	-129:39	-130:33	-131:01	51:42	024					
025	50:17	-135:11	-132:38	-127:44	-128:51	-129:45	-130:13	50:17	025					
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047	18:47	-126:07	-122:14	-116:07	-118:11	-119:11	-119:39	18:47	047					
048	17:21	-125:47	-121:53	-115:36	-117:19	-118:19	-118:47	17:21	048					
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094	-48:52	113	109:32	107:59	106:12	104:89	103:66	102:43	101:20	100:00	98:77	094	-48:52	094
095	-50:17	113	108:57	107:24	105:37	104:14	102:91	101:68	100:45	99:22	98:00	095	-50:17	095
096	-51:42	113	108:19	106:47	104:51	103:28	102:05	100:82	99:59	98:36	97:13	096	-51:42	096
097	-53:06	113	107:40	106:08	104:15	102:92	101:69	100:46	99:23	98:00	96:77	097	-53:06	097
098	-54:31	113	106:59	105:26	103:15	101:92	100:69	99:46	98:23	97:00	95:77	098	-54:31	098

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PATH/ROW TO LATITUDE/LONGITUDE
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100	-57:19	105:29	103:56	102:23	100:50	99:18	97:45	96:12	94:40	93:07	91:35	89:59	-57:19	100
101	-58:42	104:39	103:06	101:33	100:01	98:28	96:55	95:22	93:49	92:16	90:43	89:10	-58:42	101
102	-60:06	103:45	102:13	100:40	99:07	97:34	96:02	94:29	92:56	91:23	89:50	88:17	-60:06	102
103	-61:29	102:48	101:15	99:42	98:10	96:37	95:04	93:31	91:58	90:25	88:52	87:19	-61:29	103
104	-62:51	101:45	100:13	98:40	97:07	95:34	94:02	92:29	90:56	89:23	87:50	86:17	-62:51	104
105	-64:14	100:37	99:05	97:32	95:59	94:26	92:54	91:21	89:48	88:15	86:42	85:09	-64:14	105
106	-65:35	99:23	97:50	96:18	94:45	93:12	91:39	90:07	88:34	86:61	84:88	83:15	-65:35	106
107	-66:57	98:01	96:28	94:56	93:23	91:50	90:18	88:45	87:12	85:39	84:06	82:33	-66:57	107
108	-68:17	96:30	94:58	93:25	91:52	90:20	88:47	87:14	85:41	84:08	82:35	80:62	-68:17	108
109	-69:37	94:49	93:16	91:44	90:11	88:38	87:06	85:33	84:00	82:27	80:54	79:21	-69:37	109
110	-70:55	92:55	91:23	89:50	88:17	86:44	85:12	83:39	82:06	80:33	78:60	76:87	-70:55	110
111	-72:13	90:46	89:14	87:41	86:08	84:36	83:03	81:30	79:57	78:24	76:51	75:18	-72:13	111
112	-73:29	88:19	86:47	85:14	83:41	82:08	80:36	78:63	76:90	75:17	73:44	72:11	-73:29	112
113	-74:43	85:30	83:57	82:24	80:51	79:19	77:46	76:13	74:40	73:07	71:34	70:01	-74:43	113
114	-75:54	82:12	80:40	79:07	77:34	75:62	73:89	72:16	70:43	69:10	67:37	65:64	-75:54	114
115	-77:03	78:21	76:49	75:16	73:43	72:11	70:38	69:05	67:32	65:59	64:26	62:53	-77:03	115
116	-78:09	73:49	72:16	70:44	69:11	67:38	66:05	64:32	63:00	61:27	59:54	58:21	-78:09	116
117	-79:04	68:26	66:53	65:21	63:48	62:15	60:43	59:10	57:37	56:04	54:31	52:58	-79:04	117
118	-80:02	62:04	60:31	58:58	57:25	55:53	54:20	52:47	51:14	49:41	48:08	46:35	-80:02	118
119	-80:47	54:34	53:02	51:29	49:56	48:23	46:51	45:18	43:45	42:12	40:39	39:06	-80:47	119
120	-81:22	45:57	44:24	42:51	41:19	39:46	38:13	36:40	35:07	33:34	32:01	30:28	-81:22	120
121	-81:44	36:21	34:48	33:15	31:43	30:10	28:37	27:05	25:32	24:00	22:27	20:54	-81:44	121
122	-81:51	26:10	24:38	23:05	21:32	20:00	18:27	16:54	15:22	13:49	12:16	10:43	-81:51	122
123	-81:44	16:00	14:27	12:54	11:22	9:49	8:16	6:44	5:12	3:40	2:07	0:34	-81:44	123
124	-81:22	6:24	4:51	3:19	1:46	0:13	1:20	2:52	4:24	5:56	7:28	9:00	-81:22	124
125	-80:47	2:14	3:46	5:19	6:52	8:24	9:57	11:30	13:02	14:35	16:07	17:40	-80:47	125
126	-80:02	9:43	11:16	12:48	14:21	15:54	17:26	18:59	20:32	22:04	23:37	25:10	-80:02	126
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128	-78:08	21:28	23:01	24:34	26:06	27:39	29:12	30:44	32:17	33:50	35:22	36:55	-78:08	128
129	-77:03	26:01	27:33	29:06	30:39	32:12	33:44	35:17	36:50	38:23	39:55	41:28	-77:03	129
130	-75:54	29:52	31:24	32:57	34:30	36:03	37:35	39:08	40:41	42:14	43:46	45:19	-75:54	130
131	-74:43	33:09	34:42	36:14	37:47	39:20	40:52	42:25	43:58	45:31	47:04	48:37	-74:43	131
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133	-72:13	38:26	39:58	41:31	43:04	44:37	46:10	47:42	49:15	50:48	52:21	53:54	-72:13	133
134	-70:55	40:35	42:07	43:40	45:13	46:45	48:18	49:51	51:24	52:57	54:30	56:03	-70:55	134
135	-69:37	42:28	44:01	45:34	47:07	48:39	50:12	51:45	53:18	54:51	56:24	57:57	-69:37	135
136	-68:17	44:10	45:42	47:15	48:48	50:20	51:53	53:26	54:59	56:32	58:05	59:38	-68:17	136
137	-66:57	45:40	47:12	48:45	50:18	51:51	53:24	54:57	56:30	58:03	59:36	61:09	-66:57	137
138	-65:35	48:17	49:49	51:22	52:55	54:28	56:01	57:34	59:07	60:40	62:13	63:46	-65:35	138
139	-64:14	49:25	50:57	52:30	54:03	55:35	57:08	58:41	60:14	61:47	63:20	64:53	-64:14	139
140	-62:51	51:25	52:57	54:30	56:03	57:35	59:08	60:41	62:14	63:47	65:20	66:53	-62:51	140
141	-61:29	53:18	54:51	56:24	57:57	59:30	61:03	62:36	64:09	65:42	67:15	68:48	-61:29	141
142	-60:06	55:11	56:44	58:17	59:50	61:23	62:56	64:29	66:02	67:35	69:08	70:41	-60:06	142
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144	-57:19	59:08	60:41	62:14	63:47	65:20	66:53	68:26	69:59	71:32	73:05	74:38	-57:19	144
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149	-50:17	-56:16	-58:09	-59:42	-61:14	-62:47	-64:19	-65:52	-67:25	-68:58	-70:31	-72:04	-50:17	149
150	-48:52	-57:11	-58:44	-60:17	-61:49	-63:22	-64:55	-66:27	-68:00	-69:33	-71:06	-72:39	-48:52	150
151	-47:27	-57:45	-59:18	-60:50	-62:23	-63:56	-65:29	-67:02	-68:35	-70:08	-71:41	-73:14	-47:27	151
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154	-43:11	-59:18	-60:50	-62:23	-63:56	-65:29	-67:02	-68:35	-70:08	-71:41	-73:14	-74:47	-43:11	154
155	-41:46	-59:46	-61:19	-62:52	-64:25	-65:58	-67:31	-69:04	-70:37	-72:10	-73:43	-75:16	-41:46	155
156	-40:20	-60:14	-61:47	-63:20	-64:52	-66:25	-67:58	-69:31	-71:04	-72:37	-74:10	-75:43	-40:20	156
157	-38:54	-60:41	-62:14	-63:46	-65:19	-66:52	-68:25	-69:58	-71:31	-73:04	-74:37	-76:10	-38:54	157
158	-37:29	-61:07	-62:40	-64:12	-65:45	-67:18	-68:51	-70:24	-71:57	-73:30	-75:03	-76:36	-37:29	158
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161	-33:11	-62:21	-63:53	-65:26	-66:59	-68:32	-70:05	-71:38	-73:11	-74:44	-76:17	-77:50	-33:11	161
162	-31:45	-62:44	-64:17	-65:49	-67:22	-68:55	-70:28	-72:01	-73:34	-75:07	-76:40	-78:13	-31:45	162
163	-30:18	-63:07	-64:40	-66:12	-67:45	-69:18	-70:51	-72:24	-73:57	-75:30	-77:03	-78:36	-30:18	163
164	-28:52	-63:29	-65:02	-66:35	-68:07	-69:40	-71:13	-72:46	-74:19	-75:52	-77:25	-78:58	-28:52	164
165	-27:26	-63:51	-65:24	-66:57	-68:30	-70:03	-71:36	-73:09	-74:42	-76:15	-77:48	-79:21	-27:26	165
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167	-24:33	-64:34	-66:07	-67:39	-69:12	-70:45	-72:18	-73:51	-75:24	-76:57	-78:30	-80:03	-24:33	167
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170	-20:14	-65:35	-67:08	-68:41	-70:14	-71:46	-73:19	-74:52	-76:25	-77:58	-79:31	-81:04	-20:14	170
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172	-17:21	-66:15	-67:48	-69:20	-70:53	-72:26	-73:59	-75:32	-77:05	-78:38	-80:11	-81:44	-17:21	172
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177	-10:07	-67:51	-69:23	-70:56	-72:29	-74:02	-75:35	-77:08	-78:41	-80:14	-81:47	-83:20	-10:07	177
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179	-7:14	-68:28	-70:01	-71:34	-73:06	-74:39	-76:12	-77:45	-79:18	-80:51	-82:24	-83:57	-7:14	179
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190	8:41	-71:51	-73:24	-74:57	-76:30	-78:03	-79:36	-81:09	-82:42	-84:15	-85:48	-87:21	8:41	190
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193	13:01	-72:48	-74:21	-75:53	-77:26	-78:59	-80:32	-82:05	-83:38	-85:11	-86:44	-88:17	13:01	193
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196	17:21	-73:46	-75:19	-76:51	-78:24	-79:57	-81:30	-83:03	-84:36	-86:09	-87:42	-89:15	17:21	196

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198	20:14	- 74:26	- 77:31	- 75:58	- 80:36	- 81:64	- 83:31	- 84:58	- 86:25	- 87:52	- 89:19	- 90:46	20:14	198
199	21:40	- 74:46	- 77:51	- 76:19	- 80:56	- 81:84	- 83:51	- 85:18	- 86:45	- 88:12	- 89:39	- 90:66	21:40	199
200	23:07	- 75:06	- 78:12	- 76:39	- 81:16	- 82:04	- 84:11	- 85:38	- 86:65	- 87:92	- 89:19	- 90:46	23:07	200
201	24:33	- 75:27	- 78:33	- 77:00	- 81:36	- 82:24	- 84:31	- 85:58	- 87:25	- 88:52	- 90:19	- 91:46	24:33	201
202	26:00	- 75:48	- 78:54	- 77:21	- 81:56	- 82:44	- 84:51	- 86:18	- 87:45	- 89:12	- 90:39	- 91:66	26:00	202
203	27:26	- 76:10	- 79:15	- 77:42	- 82:16	- 83:04	- 85:11	- 86:38	- 87:65	- 88:92	- 90:19	- 91:46	27:26	203
204	28:52	- 76:32	- 79:37	- 78:04	- 82:36	- 83:24	- 85:31	- 86:58	- 88:25	- 89:52	- 91:19	- 92:46	28:52	204
205	30:18	- 76:54	- 79:59	- 78:27	- 82:56	- 83:44	- 85:51	- 87:18	- 88:45	- 90:12	- 91:39	- 92:66	30:18	205
206	31:45	- 77:17	- 80:19	- 78:46	- 83:16	- 84:04	- 86:11	- 87:38	- 88:65	- 89:92	- 91:19	- 92:46	31:45	206
207	33:11	- 77:40	- 80:42	- 79:13	- 83:36	- 84:24	- 86:31	- 87:58	- 89:25	- 90:52	- 92:19	- 93:46	33:11	207
208	34:37	- 78:04	- 81:04	- 79:37	- 83:56	- 84:44	- 86:51	- 88:18	- 89:45	- 91:12	- 92:39	- 93:66	34:37	208
209	36:03	- 78:29	- 81:29	- 80:01	- 84:16	- 85:04	- 87:11	- 88:38	- 89:65	- 90:92	- 92:19	- 93:46	36:03	209
210	37:29	- 78:54	- 81:54	- 80:27	- 84:41	- 85:29	- 87:48	- 89:15	- 90:42	- 92:09	- 93:36	- 94:63	37:29	210
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095	-50:17	98:08	95:58	94:25	92:52	91:19	89:46	87:73	86:00	84:27	82:54	80:81	095
096	-51:42	97:31	95:19	93:46	92:13	90:40	88:67	86:94	85:21	83:48	81:75	80:02	096
097	-53:06	96:51	94:37	93:05	91:32	89:59	88:26	86:53	84:80	83:07	81:34	79:61	097
098	-54:31	96:10	94:37	93:05	91:32	89:59	88:26	86:53	84:80	83:07	81:34	79:61	098

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH													LATITUDE	ROW
		120	121	122	123	124	125	126	127	128	129	130	131	132		
099	-55:55	95:26	93:54	92:21	90:49	89:15	87:43	86:10							-55:55	099
100	-57:19	94:40	93:07	91:34	90:02	88:29	86:56	85:23							-57:19	100
101	-58:42	93:50	92:17	90:44	89:12	87:39	86:06	84:34							-58:42	101
102	-60:06	92:56	91:24	89:51	88:18	86:46	85:13	83:40							-60:06	102
103	-61:29	91:59	90:26	88:53	87:21	85:48	84:15	82:43							-61:29	103
104	-62:51	90:56	89:24	87:51	86:18	84:46	83:13	81:40							-62:51	104
105	-64:14	89:48	88:16	86:43	85:10	83:38	82:05	80:32							-64:14	105
106	-65:35	88:34	87:01	85:29	83:56	82:23	80:51	79:18							-65:35	106
107	-66:57	87:12	85:39	84:07	82:34	81:01	79:29	77:56							-66:57	107
108	-68:17	85:41	84:09	82:36	81:03	79:31	77:58	76:25							-68:17	108
109	-69:37	84:00	82:28	80:55	79:22	77:49	76:17	74:44							-69:37	109
110	-70:55	82:10	80:38	79:05	77:32	75:59	74:27	72:54							-70:55	110
111	-72:13	79:58	78:25	76:52	75:19	73:47	72:14	70:41							-72:13	111
112	-73:29	77:30	75:58	74:25	72:52	71:19	69:47	68:14							-73:29	112
113	-74:43	74:41	73:08	71:35	70:03	68:30	66:57	65:24							-74:43	113
114	-75:54	71:24	69:51	68:18	66:45	65:13	63:40	62:07							-75:54	114
115	-77:03	67:33	66:00	64:27	62:54	61:22	59:49	58:16							-77:03	115
116	-78:08	63:00	61:27	59:55	58:22	56:50	55:17	53:44							-78:08	116
117	-79:08	57:37	55:64	53:92	52:19	50:47	49:14	47:41							-79:08	117
118	-80:02	51:15	49:42	48:09	46:36	45:04	43:31	41:58							-80:02	118
119	-80:47	43:45	42:13	40:40	39:07	37:34	36:02	34:29							-80:47	119
120	-81:22	35:08	33:35	32:02	30:30	28:57	27:24	25:52							-81:22	120
121	-81:44	25:32	23:59	22:26	20:54	19:21	17:48	16:16							-81:44	121
122	-81:51	15:21	13:49	12:16	10:43	9:11	7:38	6:05							-81:51	122
123	-81:44	5:11	3:38	2:06	0:33	1:00	2:33	4:05							-81:44	123
124	-81:22	4:25	5:58	7:30	9:03	10:36	12:08	13:41							-81:22	124
125	-80:47	13:02	14:35	16:08	17:41	19:13	20:46	22:19							-80:47	125
126	-80:02	20:32	22:04	23:37	25:10	26:43	28:15	29:48							-80:02	126
127	-79:08	26:54	28:27	30:00	31:32	33:05	34:38	36:10							-79:08	127
128	-78:08	32:17	33:50	35:23	36:55	38:28	40:01	41:33							-78:08	128
129	-77:03	36:50	38:22	39:55	41:28	43:01	44:33	46:06							-77:03	129
130	-75:54	40:41	42:13	43:46	45:19	46:52	48:24	49:57							-75:54	130
131	-74:43	43:58	45:31	47:03	48:36	50:09	51:41	53:14							-74:43	131
132	-73:29	46:47	48:20	49:53	51:26	52:59	54:31	56:04							-73:29	132
133	-72:13	49:15	50:47	52:20	53:53	55:25	56:58	58:31							-72:13	133
134	-70:55	51:24	52:56	54:29	56:02	57:34	59:07	60:40							-70:55	134
135	-69:37	53:17	54:50	56:23	57:55	59:28	61:01	62:34							-69:37	135
136	-68:17	54:59	56:31	58:04	59:37	61:09	62:42	64:15							-68:17	136
137	-66:57	56:29	58:02	59:35	61:07	62:40	64:13	65:46							-66:57	137
138	-55:35	57:51	59:24	60:57	62:29	64:02	65:35	67:07							-55:35	138
139	-64:14	59:06	60:38	62:11	63:44	65:16	66:49	68:22							-64:14	139
140	-62:51	60:13	61:46	63:19	64:52	66:24	67:57	69:30							-62:51	140
141	-61:29	61:16	62:49	64:21	65:54	67:27	68:59	70:32							-61:29	141
142	-60:06	62:14	63:46	65:19	66:52	68:24	69:57	71:30							-60:06	142
143	-58:42	63:07	64:40	66:12	67:45	69:18	70:51	72:23							-58:42	143
144	-57:19	63:57	65:30	67:02	68:35	70:08	71:40	73:13							-57:19	144
145	-55:55	64:43	66:16	67:49	69:22	70:54	72:27	74:00							-55:55	145
146	-54:31	65:27	67:00	68:33	70:05	71:38	73:11	74:43							-54:31	146
147	-53:06	66:09	67:41	69:14	70:47	72:19	73:52	75:25							-53:06	147

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FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	U	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
---	----	----	---	---	---	---	---	---	---	---	---	----	----	---
148	-51:42	-66148	-68120	-69153	-71126	-72158	-74131	-76104	-78104	-80104	-82104	-84104	-86104	148
149	-50:17	-67125	-68157	-70130	-72103	-73136	-75108	-76141	-78114	-80114	-82114	-84114	-86114	149
150	-48:52	-68100	-69133	-71105	-72138	-74111	-75144	-77116	-78149	-80119	-82119	-84119	-86119	150
151	-47:27	-68134	-69106	-71139	-73112	-74145	-76117	-77150	-79123	-81123	-83123	-85123	-87123	151
152	-46:02	-69106	-70139	-72111	-73144	-75117	-76150	-78123	-80123	-82123	-84123	-86123	-88123	152
153	-44:37	-69137	-71110	-72142	-74115	-75148	-77120	-78153	-80153	-82153	-84153	-86153	-88153	153
154	-43:11	-70107	-71139	-73112	-74145	-76118	-77150	-79123	-81123	-83123	-85123	-87123	-89123	154
155	-41:46	-70135	-72108	-73141	-75113	-76146	-78119	-79152	-81152	-83152	-85152	-87152	-89152	155
156	-40:20	-71103	-72136	-74108	-75141	-77114	-78147	-80117	-81150	-83150	-85150	-87150	-89150	156
157	-38:54	-71130	-73103	-74135	-76108	-77141	-79113	-80146	-82116	-84116	-86116	-88116	-90116	157
158	-37:29	-71156	-73129	-75101	-76134	-78107	-79139	-81102	-82135	-84135	-86135	-88135	-90135	158
159	-36:03	-72121	-73154	-75127	-76159	-78132	-80105	-81138	-83138	-85138	-87138	-89138	-91138	159
160	-34:37	-72146	-74118	-75151	-77124	-78157	-80129	-82102	-83135	-85135	-87135	-89135	-91135	160
161	-33:11	-73110	-74142	-76115	-77148	-79121	-80153	-82126	-84126	-86126	-88126	-90126	-92126	161
162	-31:45	-73133	-75106	-76138	-78111	-79144	-81117	-82150	-84150	-86150	-88150	-90150	-92150	162
163	-30:18	-73155	-75129	-77101	-78134	-80107	-81139	-83112	-84145	-86145	-88145	-90145	-92145	163
164	-28:52	-74118	-75151	-77124	-78156	-80129	-82102	-83135	-85135	-87135	-89135	-91135	-93135	164
165	-27:26	-74140	-76113	-77146	-79118	-80151	-82124	-84124	-86124	-88124	-90124	-92124	-94124	165
166	-26:00	-75102	-76134	-78107	-79140	-81112	-82145	-84145	-86145	-88145	-90145	-92145	-94145	166
167	-24:33	-75123	-76155	-78128	-80101	-81134	-83106	-84139	-86139	-88139	-90139	-92139	-94139	167
168	-23:07	-75144	-77116	-78149	-80122	-81154	-83127	-85127	-87127	-89127	-91127	-93127	-95127	168
169	-21:40	-76104	-77137	-79109	-80142	-82115	-83148	-85148	-87148	-89148	-91148	-93148	-95148	169
170	-20:14	-76124	-77157	-79130	-81102	-82135	-84108	-85140	-87140	-89140	-91140	-93140	-95140	170
171	-18:47	-76144	-78117	-79150	-81122	-82155	-84128	-85160	-87160	-89160	-91160	-93160	-95160	171
172	-17:21	-77104	-78137	-80109	-81142	-83115	-84147	-86147	-88147	-90147	-92147	-94147	-96147	172
173	-15:54	-77123	-78156	-80129	-82101	-83134	-85107	-86139	-88139	-90139	-92139	-94139	-96139	173
174	-14:27	-77143	-79115	-80148	-82121	-83153	-85125	-86157	-88157	-90157	-92157	-94157	-96157	174
175	-13:01	-78102	-79135	-81107	-82140	-84113	-85145	-87145	-89145	-91145	-93145	-95145	-97145	175
176	-11:34	-78121	-79154	-81126	-82159	-84132	-86104	-87137	-89137	-91137	-93137	-95137	-97137	176
177	-10:07	-78140	-80112	-81145	-83118	-84150	-86123	-87155	-89155	-91155	-93155	-95155	-97155	177
178	-8:41	-78158	-80131	-82104	-83137	-85109	-86141	-88141	-90141	-92141	-94141	-96141	-98141	178
179	-7:14	-79117	-80150	-82122	-83155	-85128	-86160	-88160	-90160	-92160	-94160	-96160	-98160	179
180	-5:47	-79136	-81108	-82141	-84114	-85146	-87146	-89146	-91146	-93146	-95146	-97146	-99146	180
181	-4:20	-79154	-81127	-83100	-84132	-86105	-87138	-89138	-91138	-93138	-95138	-97138	-99138	181
182	-2:54	-80113	-81145	-83118	-84151	-86123	-87155	-89155	-91155	-93155	-95155	-97155	-99155	182
183	-1:27	-80131	-81164	-83136	-84169	-86142	-88142	-90142	-92142	-94142	-96142	-98142	-100142	183
184	0:00	-80149	-81182	-83155	-85127	-86159	-88159	-90159	-92159	-94159	-96159	-98159	-100159	184
185	1:27	-81108	-82140	-84113	-85146	-87119	-88151	-90151	-92151	-94151	-96151	-98151	-100151	185
186	2:54	-81126	-82159	-84132	-86104	-87137	-89137	-91137	-93137	-95137	-97137	-99137	-101137	186
187	4:20	-81145	-83117	-84150	-86123	-87155	-89155	-91155	-93155	-95155	-97155	-99155	-101155	187
188	5:47	-82103	-83136	-85109	-86141	-88141	-90141	-92141	-94141	-96141	-98141	-100141	-102141	188
189	7:14	-82121	-83154	-85127	-86159	-88159	-90159	-92159	-94159	-96159	-98159	-100159	-102159	189
190	8:41	-82140	-83173	-85146	-86179	-88179	-90179	-92179	-94179	-96179	-98179	-100179	-102179	190
191	10:07	-82158	-84131	-86104	-87137	-89137	-91137	-93137	-95137	-97137	-99137	-101137	-103137	191
192	11:34	-83117	-84150	-86123	-87155	-89155	-91155	-93155	-95155	-97155	-99155	-101155	-103155	192
193	13:01	-83137	-84170	-86143	-87176	-89176	-91176	-93176	-95176	-97176	-99176	-101176	-103176	193
194	14:27	-83156	-84189	-86162	-87195	-89195	-91195	-93195	-95195	-97195	-99195	-101195	-103195	194
195	15:54	-84115	-85148	-87121	-88154	-90154	-92154	-94154	-96154	-98154	-100154	-102154	-104154	195
196	17:21	-84135	-85168	-87141	-88174	-90174	-92174	-94174	-96174	-98174	-100174	-102174	-104174	196

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P04	LATITUDE	PATH:											LATITUDE	ROW
		120	121	122	123	124	125	126						
197	18147	- 84155	- 86127	- 88100	- 89133	- 91105	- 92138	- 94111	18147				197	
198	20114	- 85115	- 86147	- 88120	- 89153	- 91125	- 92158	- 94131	20114				198	
199	21140	- 85135	- 87107	- 88140	- 90113	- 91146	- 93119	- 94151	21140				199	
200	23107	- 85155	- 87128	- 89101	- 90133	- 92106	- 93139	- 95111	23107				200	
201	24133	- 86116	- 87149	- 89121	- 90154	- 92127	- 94100	- 95132	24133				201	
202	26100	- 86137	- 88110	- 89143	- 91115	- 92148	- 94121	- 95153	26100				202	
203	27126	- 86159	- 88131	- 90104	- 91137	- 93109	- 94142	- 96115	27126				203	
204	28152	- 87121	- 88153	- 90126	- 91159	- 93131	- 95104	- 96137	28152				204	
205	30118	- 87143	- 89116	- 90148	- 92121	- 93154	- 95126	- 96159	30118				205	
206	31145	- 88106	- 89138	- 91111	- 92144	- 94117	- 95149	- 97122	31145				206	
207	33111	- 88129	- 90102	- 91135	- 93107	- 94140	- 96113	- 97145	33111				207	
208	34137	- 88151	- 90125	- 91158	- 93131	- 95104	- 96637	- 98109	34137				208	
209	36103	- 89116	- 90150	- 92123	- 93156	- 95128	- 97101	- 98134	36103				209	
210	37129	- 89143	- 91110	- 92145	- 94121	- 95154	- 97126	- 98159	37129				210	
211	38154	- 90109	- 91142	- 93114	- 94147	- 96120	- 97152	- 99125	38154				211	
212	40120	- 90136	- 92108	- 94141	- 95114	- 96147	- 98119	- 99152	40120				212	
213	41146	- 91103	- 92135	- 94109	- 95142	- 97114	- 98147	- 100120	41146				213	
214	43111	- 91132	- 93105	- 94137	- 96110	- 97143	- 99116	- 100148	43111				214	
215	44137	- 92102	- 93135	- 95107	- 96140	- 98113	- 99145	- 101118	44137				215	
216	46102	- 92133	- 94105	- 95138	- 97111	- 98144	- 100116	- 101149	46102				216	
217	47127	- 93105	- 94138	- 96110	- 97143	- 99116	- 101149	- 102121	47127				217	
218	48152	- 93139	- 95111	- 96144	- 98117	- 99150	- 101122	- 102155	48152				218	
219	50117	- 94114	- 95147	- 97119	- 98152	- 100125	- 101158	- 103130	50117				219	
220	51142	- 94151	- 96124	- 97157	- 99129	- 101102	- 102135	- 104107	51142				220	
221	53106	- 95130	- 97103	- 98135	- 100108	- 101141	- 103114	- 104146	53106				221	
222	54131	- 96112	- 97144	- 99117	- 100150	- 102122	- 103155	- 105129	54131				222	
223	55155	- 96155	- 98128	- 100101	- 101133	- 103106	- 104139	- 106112	55155				223	
224	57119	- 97142	- 99115	- 100147	- 102120	- 103153	- 105125	- 106158	57119				224	
225	58142	- 98132	- 100104	- 101137	- 103110	- 104143	- 106115	- 107148	58142				225	
226	60106	- 99125	- 100152	- 102131	- 104103	- 105136	- 107109	- 108141	60106				226	
227	61129	- 100124	- 101156	- 103128	- 105101	- 106134	- 108106	- 109139	61129				227	
228	62151	- 101125	- 102158	- 104131	- 106103	- 107136	- 109109	- 110142	62151				228	
229	64114	- 102133	- 104106	- 105139	- 107111	- 108144	- 110117	- 111150	64114				229	
230	65135	- 103148	- 105140	- 106153	- 108126	- 109158	- 111131	- 112103	65135				230	
231	66157	- 104109	- 106142	- 108115	- 109148	- 111120	- 112153	- 114126	66157				231	
232	68117	- 105140	- 107113	- 109146	- 111118	- 112151	- 114124	- 115156	68117				232	
233	69137	- 106121	- 108154	- 111127	- 113100	- 114132	- 116105	- 117138	69137				233	
234	70155	- 110115	- 111144	- 113121	- 114153	- 116126	- 117159	- 119131	70155				234	
235	72113	- 111144	- 113157	- 115130	- 117102	- 118135	- 120108	- 121140	72113				235	
236	73129	- 114151	- 116124	- 117157	- 119129	- 121102	- 122135	- 124108	73129				236	
237	74143	- 117141	- 119114	- 120146	- 122119	- 123152	- 125124	- 126157	74143				237	
238	75154	- 120158	- 122131	- 124103	- 125136	- 127109	- 128142	- 130115	75154				238	
239	77103	- 124149	- 126122	- 127154	- 129127	- 131100	- 132133	- 134105	77103				239	
240	78108	- 129142	- 130154	- 132127	- 134100	- 135132	- 137105	- 138138	78108				240	
241	79108	- 134145	- 136117	- 137150	- 139123	- 140155	- 142128	- 144101	79108				241	
242	80102	- 141107	- 142140	- 144112	- 145145	- 147118	- 148151	- 150123	80102				242	
243	80147	- 146136	- 150109	- 151142	- 153114	- 154147	- 156120	- 157153	80147				243	
244	81122	- 157114	- 158147	- 160119	- 161152	- 163125	- 164157	- 166130	81122				244	
245	81144	- 160150	- 164122	- 169155	- 171129	- 173101	- 174133	- 176106	81144				245	

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
246	81:51	-177:00	120	121	122	123	124	125	126				81:51	246
247	81:44	172:49		-178:33	179:54	178:22	176:49	175:16	173:44				81:44	247
248	81:22	163:13		171:17	169:44	168:11	166:39	165:06	163:33				81:22	248
				161:41	160:08	158:35	157:03	155:30	153:57					

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
LANDSAT MISSION MANAGEMENT FACILITY

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
			127	128	129	130	131	132	133					
001	80147	168130	166158	165125	163157	162119	160147	159114	158147	157156	156123	154150	80147	001
002	80102	161101	159128	157156	156123	154150	153117	151145	149122	148108	146155	145122	80102	002
003	79108	154138	153106	151133	150100	148108	146110	143132	141105	140105	138132	136159	79108	003
004	78108	149116	147143	146110	144138	143105	141105	139159	138132	136159	135127	133108	78108	004
005	77103	144143	143110	141138	140105	138132	136159	135127	133108	131136	129151	128119	77103	005
006	75154	140152	139119	137147	136152	134124	132157	131136	129151	128119	127102	125129	75154	006
007	74143	137135	136102	134129	133140	131134	129151	128119	127102	125129	124135	123102	74143	007
008	73129	134145	133113	131140	130107	128134	126107	124135	123102	121159	120132	118159	73129	008
009	72113	132118	130145	129113	127104	125131	123156	121159	119151	117118	115147	113111	72113	009
010	70155	130109	128136	126143	125110	123137	121159	119151	117118	115147	113111	111101	70155	010
011	69137	128115	126143	125110	123137	121159	119151	117118	115147	113111	111101	109109	69137	011
012	68117	126134	125101	123129	121156	119151	117118	115147	113111	111101	109109	107133	68117	012
013	66157	125103	123131	121158	120125	118153	116116	114144	112103	110136	108122	106149	66157	013
014	65135	123142	121109	120136	119131	117149	115108	113136	111101	109106	107133	105155	65135	014
015	64114	122127	120154	119122	117149	115108	113136	111101	109106	107133	105155	103143	64114	015
016	62151	121119	119147	118114	116141	114144	112103	110136	108122	106149	104112	102110	62151	016
017	61129	120117	118144	117111	114144	112103	110136	108122	106149	104112	102110	100140	61129	017
018	60106	119119	117146	116114	114144	112103	110136	108122	106149	104112	102110	100140	60106	018
019	58142	118142	116153	115120	113148	111151	109106	107133	105155	103143	101141	99155	58142	019
020	57119	117136	115130	114130	112158	110136	108122	106149	104112	102110	100140	98126	57119	020
021	55155	116149	115117	113144	111127	109106	107133	105155	103143	101141	99155	97158	55155	021
022	54131	116105	115117	113144	111127	109106	107133	105155	103143	101141	99155	97158	54131	022
023	53106	115124	113151	112119	110146	108122	106149	104112	102110	100140	98126	96154	53106	023
024	51142	114145	113112	111140	109130	107157	105155	103143	101141	99155	97158	95132	51142	024
025	50117	113133	112135	111103	109130	107157	105155	103143	101141	99155	97158	95132	50117	025
026	48152	112159	111126	109154	108121	106149	104112	102110	100140	98126	96154	94153	48152	026
027	47127	112127	110154	109121	107157	105155	103143	101141	99155	97158	95132	93154	47127	027
028	46102	111156	110123	108150	107152	106149	104112	102110	100140	98126	96613	94153	46102	028
029	44137	111126	109125	108121	106149	104112	102110	100140	98126	96613	94153	92154	44137	029
030	43111	110157	109125	108121	106613	104112	102110	100140	98126	96613	94153	92154	43111	030
031	41146	110130	108157	107124	105152	103152	101141	99155	97158	95132	93154	91154	41146	031
032	40120	110130	108157	107124	105152	103152	101141	99155	97158	95132	93154	91154	40120	032
033	38154	110103	108130	106157	104159	102156	100140	98126	96613	94153	92154	90154	38154	033
034	37129	109137	108104	106131	104159	102156	100140	98126	96613	94153	92154	90154	37129	034
035	36103	109112	108112	106108	104159	102156	100140	98126	96613	94153	92154	90154	36103	035
036	34137	108147	107114	105142	103142	101141	99155	97158	95132	93154	91154	89154	34137	036
037	33111	108123	106150	105116	103142	101141	99155	97158	95132	93154	91154	89154	33111	037
038	31145	108100	106127	104154	102156	100140	98126	96613	94153	92154	90154	88154	31145	038
039	30118	107137	106104	104131	102156	100140	98126	96613	94153	92154	90154	88154	30118	039
040	28152	107115	105142	104109	102156	100140	98126	96613	94153	92154	90154	88154	28152	040
041	27126	106153	105120	103147	102156	100140	98126	96613	94153	92216	20114	18147	27126	041
042	26100	106131	105158	103126	101153	100120	98126	96613	94153	92216	20114	18147	26100	042
043	24133	106110	105137	103105	101153	99155	97158	95132	93154	91154	89154	87154	24133	043
044	23107	105149	104116	102144	101111	99155	97158	95132	93154	91154	89154	87154	23107	044
045	21140	105129	103156	102123	100151	99155	97158	95132	93154	91154	89154	87154	21140	045
046	20114	105108	103136	102103	100130	99155	97158	95132	93154	91154	89154	87154	20114	046
047	18147	104149	103116	101143	100110	99155	97158	95132	93154	91154	89154	87154	18147	047
048	17121	104129	102156	101123	99155	97158	95132	93154	91154	89154	87154	85154	17121	048
049	15154	104109	102137	101104	99155	97158	95132	93154	91154	89154	87154	85154	15154	049

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
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051	13:01	103:31	101:59	100:25	98:53	97:20	95:47	94:15	92:42	91:10	89:37	13:01	051	
052	11:34	103:12	101:39	100:06	98:34	97:01	95:28	93:56	92:23	90:50	89:17	11:34	052	
053	10:07	102:53	101:20	99:48	98:15	96:42	95:10	93:37	92:05	90:32	89:00	10:07	053	
054	8:41	102:34	101:02	99:19	97:46	96:13	94:40	93:07	91:34	90:01	88:28	8:41	054	
055	7:14	102:16	100:43	98:10	96:38	95:05	93:32	92:00	90:27	88:54	87:21	7:14	055	
056	5:47	101:57	100:24	98:52	97:19	95:46	94:13	92:40	91:07	89:34	88:01	5:47	056	
057	4:20	101:39	100:06	98:13	96:40	95:07	93:34	92:01	90:28	88:55	87:22	4:20	057	
058	2:54	101:20	99:47	98:15	96:42	95:09	93:36	92:03	90:30	88:57	87:24	2:54	058	
059	1:27	101:02	99:29	97:56	96:24	94:51	93:18	91:45	90:12	88:39	87:06	1:27	059	
060	0:00	100:43	99:11	97:38	96:05	94:33	93:00	91:27	90:00	88:27	87:00	0:00	060	
061	-1:27	100:25	98:52	97:19	95:46	94:14	92:41	91:09	89:36	88:03	86:30	-1:27	061	
062	-2:54	100:06	98:34	97:01	95:28	93:55	92:23	90:50	89:17	87:44	86:11	-2:54	062	
063	-4:20	99:48	97:15	95:42	94:09	92:37	91:04	89:31	87:58	86:25	84:52	-4:20	063	
064	-5:47	99:30	97:38	96:06	94:33	93:00	91:27	89:54	88:21	86:48	85:15	-5:47	064	
065	-7:14	99:11	97:38	96:06	94:33	93:00	91:27	89:54	88:21	86:48	85:15	-7:14	065	
066	-8:41	98:52	97:12	95:47	94:14	92:41	91:09	89:36	88:03	86:30	84:57	-8:41	066	
067	-10:07	98:34	97:01	95:28	93:55	92:23	90:50	89:17	87:44	86:11	84:38	-10:07	067	
068	-11:34	98:15	96:42	95:09	93:37	92:04	90:31	88:58	87:25	85:52	84:19	-11:34	068	
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071	-15:54	97:17	95:45	94:12	92:39	91:06	89:34	88:01	86:28	84:55	83:22	-15:54	071	
072	-17:21	96:58	95:25	93:52	92:20	90:47	89:14	87:42	86:09	84:36	83:03	-17:21	072	
073	-18:47	96:38	95:05	93:33	92:00	90:27	88:54	87:21	85:48	84:15	82:42	-18:47	073	
074	-20:14	96:18	94:45	93:13	91:40	90:07	88:34	87:02	85:29	83:56	82:23	-20:14	074	
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077	-24:33	95:17	93:44	92:11	90:39	89:06	87:33	86:00	84:27	82:54	81:21	-24:33	077	
078	-26:00	94:56	93:23	91:50	90:17	88:44	87:11	85:39	84:06	82:33	81:00	-26:00	078	
079	-27:26	94:34	93:01	91:29	89:56	88:23	86:50	85:17	83:44	82:11	80:38	-27:26	079	
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081	-30:18	93:50	92:17	90:44	89:12	87:39	86:06	84:34	83:01	81:28	79:55	-30:18	081	
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084	-34:37	92:40	91:07	89:34	88:01	86:29	84:56	83:23	81:50	80:17	78:44	-34:37	084	
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091	-44:37	89:31	87:58	86:25	84:52	83:19	81:46	80:13	78:40	77:07	75:34	-44:37	091	
092	-46:02	89:00	87:27	85:54	84:21	82:48	81:15	79:42	78:09	76:36	75:03	-46:02	092	
093	-47:27	88:28	86:55	85:22	83:49	82:16	80:43	79:10	77:37	76:04	74:31	-47:27	093	
094	-48:52	87:54	86:21	84:48	83:15	81:42	80:09	78:36	77:03	75:30	73:57	-48:52	094	
095	-50:17	87:19	85:46	84:13	82:40	81:07	79:34	78:01	76:28	74:55	73:22	-50:17	095	
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097	-53:06	86:03	84:30	82:57	81:24	79:51	78:18	76:45	75:12	73:39	72:06	-53:06	097	
098	-54:31	85:21	83:48	82:16	80:43	79:10	77:37	76:04	74:31	72:58	71:25	-54:31	098	

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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	132	133	LATITUDE	ROW
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100	-57:19			83:51	82:18		80:45		79:13	77:40		76:07	74:35	73:02	-57:19	100
101	-58:42			83:01	81:28		79:56		78:23	76:50		75:17	73:45	72:12	-58:42	101
102	-60:06			82:07	80:35		79:02		77:29	75:57		74:24	72:51	71:18	-60:06	102
103	-61:29			81:10	79:37		78:04		76:32	74:59		73:26	71:54	70:21	-61:29	103
104	-62:51			80:15	78:43		77:10		75:37	73:57		72:24	70:51	69:18	-62:51	104
105	-64:14			79:19	77:47		76:14		74:40	73:07		71:34	70:02	68:29	-64:14	105
106	-65:35			78:24	76:52		75:19		73:45	72:12		70:39	69:06	67:33	-65:35	106
107	-66:57			77:29	75:57		74:24		72:50	71:17		69:45	68:12	66:39	-66:57	107
108	-68:17			76:34	74:62		73:18		71:45	70:12		68:38	67:05	65:32	-68:17	108
109	-69:37			75:39	73:27		71:25		70:14	68:42		67:10	65:37	64:04	-69:37	109
110	-70:55			74:44	72:32		70:30		69:19	67:47		66:14	64:41	63:08	-70:55	110
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112	-73:29			72:54	70:42		68:40		67:29	65:57		64:24	62:51	61:18	-73:29	112
113	-74:43			71:59	69:47		67:45		66:34	65:02		63:27	61:54	60:21	-74:43	113
114	-75:54			71:04	68:52		66:50		65:39	64:07		62:30	60:57	59:24	-75:54	114
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116	-78:08			69:14	67:02		65:00		63:89	62:17		60:40	59:07	57:34	-78:08	116
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119	-80:47			66:29	64:17		62:15		61:04	59:32		57:51	56:18	54:45	-80:47	119
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121	-81:44			64:39	62:27		60:14		59:05	57:33		56:02	54:29	52:56	-81:44	121
122	-81:51			63:44	61:32		59:19		58:10	56:38		55:07	53:34	52:01	-81:51	122
123	-81:44			62:49	60:37		58:24		57:15	55:43		54:10	52:37	51:04	-81:44	123
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129	-77:03			56:79	54:67		52:60		51:51	50:19		48:46	47:13	45:40	-77:03	129
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131	-74:43			54:89	52:77		50:58		49:49	48:17		46:42	45:09	43:36	-74:43	131
132	-73:29			53:94	51:82		49:53		48:44	47:12		45:37	43:64	41:91	-73:29	132
133	-72:13			52:99	50:87		48:58		47:49	46:17		44:40	43:07	41:34	-72:13	133
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137	-66:57			48:19	46:07		44:04		42:55	41:23		39:46	38:13	36:40	-66:57	137
138	-65:35			47:24	45:12		43:00		41:51	40:19		38:42	37:09	35:36	-65:35	138
139	-64:14			46:29	44:17		42:05		40:56	39:24		37:47	36:14	34:41	-64:14	139
140	-62:51			45:34	43:22		41:10		39:51	38:19		36:42	35:09	33:36	-62:51	140
141	-61:29			44:39	42:27		40:14		38:55	37:23		35:46	34:13	32:40	-61:29	141
142	-60:06			43:44	41:32		39:19		38:00	36:28		34:51	33:18	31:45	-60:06	142
143	-58:42			42:49	40:37		38:24		37:05	35:33		33:56	32:23	30:50	-58:42	143
144	-57:19			41:54	39:42		37:29		36:10	34:38		32:61	30:88	29:15	-57:19	144
145	-55:55			40:59	38:47		36:34		35:15	33:43		31:66	29:93	28:20	-55:55	145
146	-54:31			39:64	37:52		35:39		34:20	32:48		30:71	28:98	27:25	-54:31	146
147	-53:06			38:69	36:57		34:44		33:25	31:53		29:76	28:03	26:30	-53:06	147

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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
148	-51:42	-77:37	-79:09	-80:42	-82:15	-83:47	-85:20	-86:53	-88:26	-89:59	-91:32	-93:05	-51:42	148
149	-50:17	-78:14	-79:46	-81:19	-82:52	-84:24	-85:57	-87:30	-89:03	-90:36	-92:09	-93:42	-50:17	149
150	-48:52	-78:49	-80:21	-81:54	-83:27	-85:00	-86:33	-88:06	-89:39	-91:12	-92:45	-94:18	-48:52	150
151	-47:27	-79:23	-80:55	-82:28	-84:01	-85:33	-87:06	-88:39	-90:12	-91:45	-93:18	-94:51	-47:27	151
152	-46:02	-79:55	-81:28	-83:00	-84:33	-86:06	-87:39	-89:12	-90:45	-92:18	-93:51	-95:24	-46:02	152
153	-44:37	-80:26	-81:59	-83:31	-85:04	-86:37	-88:10	-89:43	-91:16	-92:49	-94:22	-95:55	-44:37	153
154	-43:11	-80:56	-82:28	-84:01	-85:34	-87:06	-88:39	-90:12	-91:45	-93:18	-94:51	-96:24	-43:11	154
155	-41:46	-81:24	-82:57	-84:30	-86:03	-87:35	-89:08	-90:41	-92:14	-93:47	-95:20	-96:53	-41:46	155
156	-40:20	-81:52	-83:25	-84:57	-86:30	-88:03	-89:36	-91:09	-92:42	-94:15	-95:48	-97:21	-40:20	156
157	-38:54	-82:19	-83:52	-85:24	-86:57	-88:30	-90:03	-91:36	-93:09	-94:42	-96:15	-97:48	-38:54	157
158	-37:29	-82:45	-84:18	-85:50	-87:23	-88:56	-90:29	-92:02	-93:35	-95:08	-96:41	-98:14	-37:29	158
159	-36:03	-83:10	-84:43	-86:15	-87:48	-89:21	-90:54	-92:27	-94:00	-95:33	-97:06	-98:39	-36:03	159
160	-34:37	-83:35	-85:07	-86:40	-88:13	-89:46	-91:19	-92:52	-94:25	-95:58	-97:31	-99:04	-34:37	160
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163	-30:18	-84:45	-86:17	-87:50	-89:23	-90:56	-92:29	-94:02	-95:35	-97:08	-98:41	-100:14	-30:18	163
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171	-18:47	-87:33	-89:06	-90:39	-92:12	-93:45	-95:18	-96:51	-98:24	-99:57	-101:30	-103:03	-18:47	171
172	-17:21	-87:53	-89:26	-90:59	-92:32	-94:05	-95:38	-97:11	-98:44	-100:17	-101:50	-103:23	-17:21	172
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178	-8:41	-89:47	-91:20	-92:53	-94:25	-95:58	-97:31	-99:04	-100:37	-102:10	-103:43	-105:16	-8:41	178
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181	-4:20	-90:43	-92:16	-93:48	-95:21	-96:54	-98:27	-99:60	-101:33	-103:06	-104:39	-106:12	-4:20	181
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185	1:27	-91:57	-93:29	-95:02	-96:35	-98:08	-99:41	-101:14	-102:47	-104:20	-105:53	-107:26	1:27	185
186	2:54	-92:15	-93:48	-95:21	-96:54	-98:27	-99:60	-101:33	-103:06	-104:39	-106:12	-107:45	2:54	186
187	4:20	-92:34	-94:06	-95:39	-97:12	-98:45	-100:18	-101:51	-103:24	-104:57	-106:30	-108:03	4:20	187
188	5:47	-92:52	-94:25	-95:58	-97:31	-99:04	-100:37	-102:10	-103:43	-105:16	-106:49	-108:22	5:47	188
189	7:14	-93:11	-94:43	-96:16	-97:49	-99:22	-100:55	-102:28	-104:01	-105:34	-107:07	-108:40	7:14	189
190	8:41	-93:29	-95:02	-96:35	-98:08	-99:41	-101:14	-102:47	-104:20	-105:53	-107:26	-108:99	8:41	190
191	10:07	-93:48	-95:21	-96:54	-98:27	-99:60	-101:33	-103:06	-104:39	-106:12	-107:45	-109:18	10:07	191
192	11:34	-94:07	-95:40	-97:12	-98:45	-100:18	-101:51	-103:24	-104:57	-106:30	-108:03	-109:36	11:34	192
193	13:01	-94:26	-95:59	-97:31	-99:04	-100:37	-102:10	-103:43	-105:16	-106:49	-108:22	-109:55	13:01	193
194	14:27	-94:45	-96:18	-97:50	-99:23	-100:56	-102:29	-104:02	-105:35	-107:08	-108:41	-110:14	14:27	194
195	15:54	-95:04	-96:37	-98:10	-99:42	-101:15	-102:48	-104:21	-105:54	-107:27	-109:00	-110:33	15:54	195
196	17:21	-95:24	-96:57	-98:29	-100:02	-101:35	-103:08	-104:41	-106:14	-107:47	-109:20	-110:53	17:21	196

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			127	128	129	130	131	132	133					
197	18147	- 95144	- 97116	- 98149	- 100122	- 101154	- 103127	- 105100	18147	197				
198	20114	- 96103	- 97136	- 99109	- 100142	- 102114	- 103147	- 105120	20114	198				
199	21140	- 96124	- 97156	- 99129	- 101102	- 102134	- 104107	- 105140	21140	199				
200	23107	- 96144	- 98117	- 99150	- 101122	- 102155	- 104128	- 106100	23107	200				
201	24133	- 97105	- 98138	- 100110	- 101143	- 103116	- 104148	- 106121	24133	201				
202	26100	- 97126	- 98159	- 100132	- 102104	- 103137	- 105110	- 106142	26100	202				
203	27126	- 97148	- 99120	- 100153	- 102126	- 103158	- 105131	- 107104	27126	203				
204	28152	- 98110	- 99142	- 101115	- 102148	- 104120	- 105153	- 107126	28152	204				
205	30118	- 98132	- 100105	- 101137	- 103110	- 104143	- 106115	- 107148	30118	205				
206	31145	- 98155	- 100127	- 102100	- 103133	- 105106	- 106139	- 107148	31145	206				
207	33111	- 99118	- 100151	- 102123	- 103156	- 105129	- 107102	- 108134	33111	207				
208	34137	- 99142	- 101115	- 102147	- 104120	- 105153	- 107126	- 108158	34137	208				
209	36103	- 100107	- 101139	- 103112	- 104145	- 106117	- 107150	- 109123	36103	209				
210	37129	- 100132	- 102105	- 103137	- 105110	- 106143	- 108115	- 109148	37129	210				
211	38154	- 100158	- 102131	- 104103	- 105136	- 107109	- 108141	- 110114	38154	211				
212	40120	- 101125	- 103157	- 104130	- 106103	- 107135	- 109108	- 110141	40120	212				
213	41146	- 101152	- 103125	- 104158	- 106130	- 108103	- 109136	- 11109	41146	213				
214	43111	- 102121	- 103154	- 105126	- 106159	- 108132	- 110134	- 11109	43111	214				
215	44137	- 102151	- 104123	- 105156	- 107129	- 109102	- 111105	- 112107	44137	215				
216	46102	- 103122	- 104154	- 106127	- 108100	- 109133	- 111105	- 112138	46102	216				
217	47127	- 103154	- 105127	- 106159	- 108132	- 110105	- 112111	- 113110	47127	217				
218	48152	- 104128	- 106100	- 107133	- 109106	- 110138	- 112146	- 113144	48152	218				
219	50117	- 105103	- 106136	- 108108	- 109141	- 111114	- 112146	- 114119	50117	219				
220	51142	- 105149	- 107113	- 108145	- 110118	- 111151	- 113124	- 114156	51142	220				
221	53106	- 106119	- 107152	- 109125	- 110157	- 112130	- 114103	- 115135	53106	221				
222	54131	- 107100	- 108133	- 110106	- 111139	- 113111	- 114144	- 116117	54131	222				
223	55155	- 107144	- 109117	- 110150	- 112132	- 113155	- 115128	- 117100	55155	223				
224	57119	- 108131	- 110104	- 111136	- 113109	- 114142	- 116114	- 117147	57119	224				
225	58142	- 108151	- 110153	- 112126	- 113159	- 114152	- 117104	- 118137	58142	225				
226	60106	- 110114	- 111147	- 113120	- 114152	- 116125	- 117158	- 119130	60106	226				
227	61129	- 111112	- 112145	- 114117	- 115150	- 117123	- 118155	- 120128	61129	227				
228	62151	- 112114	- 113147	- 115120	- 116152	- 118125	- 119158	- 121130	62151	228				
229	64114	- 113122	- 114155	- 116128	- 118100	- 119133	- 121106	- 123138	64114	229				
230	65135	- 114137	- 116109	- 117142	- 119115	- 120147	- 122120	- 123153	65135	230				
231	66157	- 115158	- 117131	- 119104	- 120137	- 121109	- 123142	- 125115	66157	231				
232	68117	- 117129	- 119102	- 120135	- 122107	- 123140	- 125113	- 126145	68117	232				
233	69137	- 119110	- 120143	- 122116	- 123148	- 125121	- 126154	- 128127	69137	233				
234	70155	- 121104	- 123137	- 124110	- 125142	- 127115	- 128148	- 130120	70155	234				
235	72113	- 123113	- 124146	- 126118	- 127151	- 129124	- 130157	- 132129	72113	235				
236	73129	- 125140	- 127113	- 128146	- 130118	- 131151	- 133124	- 134156	73129	236				
237	74143	- 128130	- 130103	- 131135	- 133108	- 134141	- 136114	- 137146	74143	237				
238	75154	- 131147	- 133120	- 134152	- 136125	- 137158	- 139131	- 141103	75154	238				
239	77103	- 135138	- 137111	- 138143	- 140116	- 141149	- 143122	- 144154	77103	239				
240	78108	- 140111	- 141143	- 143116	- 144149	- 146121	- 147154	- 149127	78108	240				
241	79108	- 145133	- 147106	- 148133	- 150106	- 151144	- 153117	- 154150	79108	241				
242	80102	- 151156	- 153129	- 155101	- 156134	- 158107	- 159139	- 161112	80102	242				
243	80147	- 159125	- 161158	- 163131	- 164103	- 165136	- 167109	- 168141	80147	243				
244	81122	- 168103	- 169135	- 171108	- 172141	- 174114	- 175146	- 177119	81122	244				
245	81144	- 177139	- 179111	- 179116	- 177143	- 176111	- 174138	- 173105	81144	245				

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246	81:51	172:11	127	128	129	130	131	132	133				81:51	246
247	81:44	162:00		170:38	169:05	167:33	166:00	164:27	162:55				81:44	247
248	81:22	152:24		160:28	158:55	157:22	155:50	154:17	152:44				81:22	248
				150:52	149:19	147:46	146:14	144:41	143:08					

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
			134	135	136	137	138	139	140					
001	80:47	157:41	156:09	154:36	153:03	151:31	149:58	148:25	80:47	001				
002	80:02	150:12	148:39	147:07	145:34	144:01	142:28	140:56	80:02	002				
003	79:08	143:50	142:17	140:44	139:11	137:39	136:06	134:33	79:08	003				
004	78:08	138:27	136:54	135:21	133:48	132:16	130:43	129:10	78:08	004				
005	77:03	133:54	132:21	130:49	129:16	127:43	126:11	124:38	77:03	005				
006	75:54	130:03	128:30	126:58	125:25	123:52	122:20	120:47	75:54	006				
007	74:43	126:46	125:13	123:41	122:08	120:35	119:02	117:30	74:43	007				
008	73:29	123:56	122:24	120:51	119:18	117:45	116:13	114:40	73:29	008				
009	72:13	121:29	119:56	118:24	116:51	115:18	113:46	112:13	72:13	009				
010	70:55	119:20	117:47	116:15	114:42	113:09	111:37	110:04	70:55	010				
011	69:37	117:26	115:54	114:21	112:48	111:16	109:43	108:10	69:37	011				
012	68:17	115:45	114:12	112:40	111:07	109:34	108:02	106:29	68:17	012				
013	66:57	114:14	112:42	111:09	109:36	108:04	106:31	104:58	66:57	013				
014	65:35	112:53	111:20	109:47	108:14	106:42	105:09	103:36	65:35	014				
015	64:14	111:38	109:06	107:33	106:00	104:27	102:55	101:22	64:14	015				
016	62:51	110:30	108:58	107:25	105:52	104:20	102:47	101:14	62:51	016				
017	61:29	109:28	107:55	106:22	104:50	103:17	101:44	100:12	61:29	017				
018	60:06	108:30	106:58	105:25	103:52	102:19	100:47	99:14	60:06	018				
019	58:42	107:37	105:04	103:31	101:59	100:26	98:53	97:21	58:42	019				
020	57:19	106:47	104:14	102:42	101:10	99:36	98:03	96:31	57:19	020				
021	55:55	105:00	103:28	101:55	100:22	98:49	97:16	95:44	55:55	021				
022	54:31	103:17	101:44	100:11	98:38	97:05	95:32	94:00	54:31	022				
023	53:06	101:35	100:02	98:29	96:56	95:23	93:50	92:18	53:06	023				
024	51:42	100:36	99:03	97:30	95:57	94:24	92:51	91:19	51:42	024				
025	50:17	100:19	98:46	97:13	95:40	94:07	92:34	91:01	50:17	025				
026	48:52	102:44	101:11	99:38	98:05	96:32	94:59	93:26	48:52	026				
027	47:27	102:10	100:37	99:04	97:31	95:58	94:25	92:52	47:27	027				
028	46:02	101:38	100:05	98:32	96:59	95:26	93:53	92:20	46:02	028				
029	44:37	100:37	99:04	97:31	95:58	94:25	92:52	91:19	44:37	029				
030	43:11	100:37	99:04	97:31	95:58	94:25	92:52	91:19	43:11	030				
031	41:46	100:38	98:16	96:43	95:10	93:37	92:04	90:31	41:46	031				
032	40:20	99:41	98:08	96:35	95:02	93:29	91:56	90:23	40:20	032				
033	38:54	99:14	97:41	96:08	94:35	93:02	91:29	90:06	38:54	033				
034	37:29	98:48	97:15	95:42	94:09	92:36	91:03	89:30	37:29	034				
035	36:03	98:23	96:50	95:17	93:44	92:11	90:38	89:05	36:03	035				
036	34:37	97:58	96:25	94:52	93:19	91:46	90:13	88:40	34:37	036				
037	33:11	97:34	96:01	94:28	92:55	91:22	89:49	88:16	33:11	037				
038	31:45	97:11	95:38	94:05	92:32	90:59	89:26	87:53	31:45	038				
039	30:18	96:48	95:15	93:42	92:09	90:36	89:03	87:30	30:18	039				
040	28:52	96:26	94:53	93:20	91:47	90:14	88:41	87:08	28:52	040				
041	27:26	96:04	94:31	92:58	91:25	89:52	88:19	86:46	27:26	041				
042	26:00	95:42	94:09	92:37	91:04	89:31	87:58	86:25	26:00	042				
043	24:33	95:21	93:48	92:15	90:42	89:09	87:36	86:03	24:33	043				
044	23:07	95:00	93:28	91:55	90:22	88:49	87:16	85:43	23:07	044				
045	21:40	94:40	93:07	91:34	90:02	88:29	86:56	85:24	21:40	045				
046	20:14	94:20	92:47	91:14	89:41	88:09	86:36	85:03	20:14	046				
047	18:47	94:00	92:27	90:54	89:21	87:49	86:16	84:43	18:47	047				
048	17:21	93:40	92:07	90:34	89:02	87:29	85:56	84:24	17:21	048				
049	15:54	93:20	91:48	90:15	88:42	87:10	85:37	84:04	15:54	049				

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PATH/ROW TO LATITUDE/LONGITUDE
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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
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051	13:01	92:42	91:09	89:37	88:04	86:31	84:58	83:25	81:52	80:19	78:46	77:13	75:40	051
052	11:34	92:13	90:50	89:18	87:45	86:12	84:39	83:07	81:34	79:61	77:88	76:15	74:42	052
053	10:07	92:04	90:31	88:59	87:26	85:53	84:20	82:47	81:14	79:41	77:68	75:95	74:22	053
054	8:41	91:45	90:13	88:40	87:07	85:35	84:02	82:29	80:56	79:23	77:50	76:17	74:44	054
055	7:14	91:27	89:54	88:21	86:49	85:16	83:43	82:10	80:37	78:64	76:91	75:18	73:45	055
056	5:47	91:08	89:35	88:03	86:30	84:57	83:24	81:51	80:18	78:45	77:12	75:39	74:06	056
057	4:20	90:50	89:17	87:44	86:12	84:39	83:06	81:33	79:60	77:87	76:14	74:41	73:08	057
058	2:54	90:31	88:59	87:26	85:53	84:20	82:47	81:14	79:41	77:68	75:95	74:22	72:49	058
059	1:27	90:13	88:40	87:07	85:35	84:02	82:29	80:56	79:23	77:50	76:17	74:44	73:11	059
060	0:00	89:54	88:22	86:49	85:16	83:43	82:10	80:37	78:64	76:91	75:18	73:45	72:12	060
061	-1:27	89:36	88:03	86:31	84:58	83:25	81:52	80:19	78:46	77:13	75:40	74:07	72:34	061
062	-2:54	89:18	87:45	86:12	84:39	83:07	81:34	79:61	77:88	76:15	74:42	73:09	71:36	062
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064	-5:47	88:41	87:08	85:35	84:02	82:29	80:56	79:23	77:50	76:17	74:44	73:11	71:38	064
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PATH/ROW TO LATITUDE/LONGITUDE
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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
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101	-58:42	72:12	70:39	69:07	67:34	66:01	64:28	62:55	61:22	59:49	58:16	56:43	-58:42	101
102	-60:06	71:19	69:46	68:13	66:40	65:07	63:34	62:01	60:28	58:55	57:22	55:49	-60:06	102
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104	-62:51	69:18	67:46	66:13	64:40	63:07	61:34	59:61	57:88	56:15	54:42	53:09	-62:51	104
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135	-69:37	74:55	76:28	78:01	79:34	81:07	82:40	84:13	85:46	87:19	88:52	90:25	-69:37	135
136	-68:17	76:36	78:09	79:42	81:15	82:48	84:21	85:54	87:27	89:00	90:33	92:06	-68:17	136
137	-66:57	78:07	79:40	81:13	82:46	84:19	85:52	87:25	88:58	90:31	92:04	93:37	-66:57	137
138	-65:35	79:29	81:02	82:35	84:08	85:41	87:14	88:47	90:20	91:53	93:26	95:00	-65:35	138
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ROW	LATITUDE	PATH	L	U	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
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149	-50:17	-89:03	-90:35	-92:08	-93:41	-95:13	-96:46	-98:19	-99:52	-101:25	-102:58	-104:31	-106:04	149
150	-48:52	-89:38	-91:11	-92:43	-94:16	-95:49	-97:22	-98:55	-100:28	-102:01	-103:34	-105:07	-106:40	150
151	-47:27	-90:12	-91:44	-93:17	-94:50	-96:22	-97:55	-99:28	-101:01	-102:34	-104:07	-105:40	-107:13	151
152	-46:02	-90:44	-92:17	-93:49	-95:22	-96:55	-98:27	-99:60	-101:33	-103:06	-104:39	-106:12	-107:45	152
153	-44:37	-91:15	-92:48	-94:20	-95:53	-97:26	-98:59	-100:32	-102:05	-103:38	-105:11	-106:44	-108:17	153
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162	-31:45	-95:11	-96:44	-98:16	-99:49	-101:22	-102:55	-104:28	-106:01	-107:34	-109:07	-110:40	-112:13	162
163	-30:18	-95:34	-97:06	-98:39	-100:12	-101:44	-103:17	-104:50	-106:23	-107:56	-109:29	-111:02	-112:35	163
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171	-18:47	-98:22	-99:55	-101:27	-103:00	-104:33	-106:06	-107:39	-109:12	-110:45	-112:18	-113:51	-115:24	171
172	-17:21	-98:42	-100:14	-101:47	-103:20	-104:53	-106:26	-107:59	-109:32	-111:05	-112:38	-114:11	-115:44	172
173	-15:54	-99:01	-100:34	-102:07	-103:39	-105:12	-106:45	-108:18	-109:51	-111:24	-112:57	-114:30	-116:03	173
174	-14:27	-99:21	-100:53	-102:26	-103:59	-105:31	-107:04	-108:37	-110:10	-111:43	-113:16	-114:49	-116:22	174
175	-13:01	-99:40	-101:12	-102:45	-104:18	-105:51	-107:24	-108:57	-110:30	-112:03	-113:36	-115:09	-116:42	175
176	-11:34	-99:59	-101:31	-102:54	-104:37	-106:10	-107:43	-109:16	-110:49	-112:22	-113:55	-115:28	-117:01	176
177	-10:07	-100:18	-101:50	-103:23	-104:56	-106:29	-108:02	-109:35	-111:08	-112:41	-114:14	-115:47	-117:20	177
178	-8:41	-100:36	-102:09	-103:42	-105:14	-106:47	-108:20	-109:53	-111:26	-112:59	-114:32	-116:05	-117:38	178
179	-7:14	-100:55	-102:28	-103:60	-105:33	-107:06	-108:39	-110:12	-111:45	-113:18	-114:51	-116:24	-117:57	179
180	-5:47	-101:13	-102:46	-104:19	-105:52	-107:24	-108:57	-110:30	-112:03	-113:36	-115:09	-116:42	-118:15	180
181	-4:20	-101:32	-103:05	-104:37	-106:10	-107:43	-109:16	-110:49	-112:22	-113:55	-115:28	-117:01	-118:34	181
182	-2:54	-101:50	-103:23	-104:56	-106:29	-108:02	-109:35	-111:08	-112:41	-114:14	-115:47	-117:20	-118:53	182
183	-1:27	-102:09	-103:42	-105:14	-106:47	-108:20	-109:53	-111:26	-112:59	-114:32	-116:05	-117:38	-119:11	183
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187	4:20	-103:23	-104:55	-106:28	-108:01	-109:34	-111:06	-112:39	-114:12	-115:45	-117:18	-118:51	-120:24	187
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190	8:41	-104:18	-105:51	-107:24	-108:56	-110:29	-112:02	-113:35	-115:08	-116:41	-118:14	-119:47	-121:20	190
191	10:07	-104:37	-106:10	-107:42	-109:15	-110:48	-112:21	-113:54	-115:27	-117:00	-118:33	-120:06	-121:39	191
192	11:34	-104:56	-106:29	-108:01	-109:34	-111:07	-112:40	-114:13	-115:46	-117:19	-118:52	-120:25	-121:58	192
193	13:01	-105:15	-106:48	-108:20	-109:53	-111:26	-113:00	-114:33	-116:06	-117:39	-119:12	-120:45	-122:18	193
194	14:27	-105:34	-107:07	-108:39	-110:12	-111:45	-113:18	-114:51	-116:24	-117:57	-119:30	-121:03	-122:36	194
195	15:54	-105:53	-107:26	-108:59	-110:31	-112:04	-113:37	-115:10	-116:43	-118:16	-119:49	-121:22	-122:55	195
196	17:21	-106:13	-107:45	-109:18	-110:51	-112:24	-113:56	-115:29	-117:02	-118:35	-120:08	-121:41	-123:14	196

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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
197	18:47	-106:32	-108:05	-109:38	-111:11	-112:43	-114:16	-115:49	18:47	197				
198	20:14	-106:52	-108:25	-109:58	-111:31	-113:03	-114:36	-116:09	20:14	198				
199	21:40	-107:13	-108:45	-110:18	-111:51	-113:23	-114:56	-116:29	21:40	199				
200	23:07	-107:33	-109:06	-110:38	-112:11	-113:44	-115:17	-116:49	23:07	200				
201	24:33	-107:54	-109:27	-110:59	-112:32	-114:05	-115:37	-117:10	24:33	201				
202	26:00	-108:15	-109:48	-111:20	-112:53	-114:26	-115:59	-117:31	26:00	202				
203	27:26	-108:37	-110:09	-111:42	-113:15	-114:47	-116:20	-117:53	27:26	203				
204	28:52	-108:58	-110:31	-112:04	-113:37	-115:09	-116:42	-118:15	28:52	204				
205	30:18	-109:21	-110:54	-112:26	-113:59	-115:32	-117:04	-118:37	30:18	205				
206	31:45	-109:44	-111:16	-112:49	-114:22	-115:54	-117:27	-119:00	31:45	206				
207	33:11	-110:07	-111:39	-113:12	-114:45	-116:18	-117:51	-119:23	33:11	207				
208	34:37	-110:31	-112:04	-113:36	-115:09	-116:42	-118:14	-119:47	34:37	208				
209	36:03	-110:56	-112:28	-114:01	-115:34	-117:06	-118:39	-120:12	36:03	209				
210	37:29	-111:21	-112:53	-114:26	-115:59	-117:32	-119:04	-120:37	37:29	210				
211	38:54	-111:47	-113:19	-114:52	-116:25	-117:58	-119:30	-120:57	38:54	211				
212	40:20	-112:14	-113:46	-115:19	-116:52	-118:24	-119:57	-121:15	40:20	212				
213	41:46	-112:41	-114:14	-115:47	-117:19	-118:52	-120:25	-121:50	41:46	213				
214	43:11	-113:10	-114:43	-116:16	-117:48	-119:21	-120:53	-122:12	43:11	214				
215	44:37	-113:40	-115:12	-116:43	-118:18	-119:51	-121:54	-122:35	44:37	215				
216	46:02	-114:11	-115:43	-117:16	-118:49	-120:21	-122:26	-123:17	46:02	216				
217	47:27	-114:43	-116:16	-117:48	-119:21	-120:54	-122:26	-123:59	47:27	217				
218	48:52	-115:17	-116:49	-118:22	-119:55	-121:27	-123:00	-124:33	48:52	218				
219	50:17	-115:52	-117:25	-119:34	-120:30	-122:03	-123:35	-125:08	50:17	219				
220	51:42	-116:29	-118:02	-119:34	-120:30	-122:03	-123:35	-125:08	51:42	220				
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223	55:55	-118:33	-120:06	-121:39	-123:11	-124:44	-126:17	-127:49	55:55	223				
224	57:19	-119:20	-120:53	-122:25	-123:58	-125:31	-127:03	-128:36	57:19	224				
225	58:42	-120:10	-121:42	-123:15	-124:48	-126:20	-127:53	-129:26	58:42	225				
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233	69:37	-129:59	-131:32	-133:05	-134:37	-136:10	-137:43	-139:16	69:37	233				
234	70:55	-131:53	-133:26	-134:58	-136:31	-138:04	-140:13	-141:45	70:55	234				
235	72:13	-134:02	-135:35	-137:07	-138:40	-140:13	-141:45	-143:18	72:13	235				
236	73:29	-136:29	-138:02	-139:35	-141:07	-143:57	-145:30	-148:03	73:29	236				
237	74:43	-138:19	-140:52	-142:24	-143:57	-145:30	-148:03	-150:19	74:43	237				
238	75:54	-142:36	-144:09	-145:41	-147:14	-148:47	-150:19	-152:43	75:54	238				
239	77:03	-146:27	-148:00	-149:32	-151:05	-152:38	-154:13	-156:43	77:03	239				
240	78:08	-150:59	-152:32	-154:05	-155:38	-157:10	-158:43	-160:16	78:08	240				
241	79:08	-156:12	-157:55	-159:28	-161:00	-162:33	-164:06	-165:39	79:08	241				
242	80:47	-162:45	-164:18	-165:50	-167:23	-168:56	-170:28	-171:58	80:47	242				
243	81:22	-170:14	-171:47	-173:20	-174:52	-176:25	-177:58	-179:30	81:22	243				
244	81:44	-178:52	-179:36	-180:03	-181:30	-182:58	-184:25	-185:52	81:44	244				
245		-171:32	-170:00	-168:27	-166:54	-165:22	-163:49	-162:16		245				

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---	-----	----	---	---	---	---	---	---	---	---	---	-----	-----	---
246	81:51	161:22	134	135	136	137	138	139	140					
247	81:44	151:11		159:49	158:17	156:44	155:11	153:38	152:06				81:51	246
248	81:22	141:36		149:39	148:06	146:33	145:01	143:28	141:55				81:44	247
				140:03	138:30	136:57	135:25	133:52	132:19				81:22	248

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
001	80:47	146:52	141	142	143	144	145	146	147			137:36	80:47	001
002	80:02	139:23		137:50	136:18	143:14	140:42	139:09	137:36			130:07	80:02	002
003	79:08	133:01		131:20	129:10	134:45	133:12	131:40	130:07			128:44	79:08	003
004	78:08	127:38		126:05	124:32	129:00	127:27	125:54	124:21			122:44	78:08	004
005	77:03	123:05		121:32	120:00	118:27	116:54	115:22	113:49			112:12	77:03	005
006	75:54	119:14		117:41	116:09	114:36	113:03	111:31	109:58			108:24	75:54	006
007	74:43	115:57		114:24	112:52	111:19	109:46	108:14	106:41			105:15	74:43	007
008	73:29	113:07		111:35	110:02	108:29	106:57	105:24	103:51			102:18	73:29	008
009	72:13	110:40		109:10	107:35	106:02	104:29	102:57	101:24			99:51	72:13	009
010	70:55	108:31		106:59	105:26	103:53	102:20	100:48	99:15			97:42	70:55	010
011	69:37	106:37		105:05	103:32	101:59	100:27	98:54	97:21			95:40	69:37	011
012	68:17	104:56		103:24	101:51	100:18	98:45	97:13	95:40			94:09	68:17	012
013	66:57	103:26		101:53	100:20	98:47	97:15	95:42	94:10			92:47	66:57	013
014	65:35	102:04		100:31	98:58	97:26	95:53	94:20	92:47			91:13	65:35	014
015	64:14	100:49		99:11	97:34	95:51	94:19	92:46	91:13			89:40	64:14	015
016	62:51	99:41		98:09	96:36	94:54	93:21	91:48	89:75			88:02	62:51	016
017	61:29	98:33		96:56	95:23	93:40	92:07	90:34	88:61			86:88	61:29	017
018	60:06	97:41		96:09	94:36	92:53	91:20	89:47	87:74			86:01	60:06	018
019	58:42	96:48		95:15	93:42	92:10	90:37	88:64	86:91			85:18	58:42	019
020	57:19	95:58		94:25	92:53	91:20	89:47	87:74	86:01			84:28	57:19	020
021	55:55	95:11		93:39	92:06	90:33	88:60	86:87	85:14			83:41	55:55	021
022	54:31	94:28		92:55	91:22	89:49	87:76	86:03	84:30			82:57	54:31	022
023	53:06	93:46		92:14	90:41	89:08	87:35	85:62	83:89			82:16	53:06	023
024	51:42	93:07		91:34	90:02	88:29	86:56	85:23	83:50			82:17	51:42	024
025	50:17	92:30		90:57	89:25	87:52	86:19	84:46	82:73			81:00	50:17	025
026	48:52	91:55		90:12	88:40	87:07	85:34	83:61	81:88			80:15	48:52	026
027	47:27	91:21		89:48	88:16	86:43	84:70	82:97	81:24			79:51	47:27	027
028	46:02	90:49		89:16	87:43	86:10	84:37	82:64	80:91			79:18	46:02	028
029	44:37	90:18		88:45	87:12	85:40	83:67	81:94	80:21			78:45	44:37	029
030	43:11	89:48		88:15	86:43	85:10	83:37	81:64	79:91			78:18	43:11	030
031	41:46	89:19		87:47	86:14	84:41	83:08	81:35	79:62			77:89	41:46	031
032	40:20	88:52		87:19	85:46	84:14	82:41	80:68	78:95			77:22	40:20	032
033	38:54	88:25		86:52	85:20	83:47	82:14	80:41	78:68			76:95	38:54	033
034	37:29	87:59		86:26	84:54	83:21	81:48	79:75	78:02			76:29	37:29	034
035	36:03	87:34		86:01	84:28	82:56	81:23	79:50	78:17			76:44	36:03	035
036	34:37	87:09		85:36	84:04	82:31	80:58	79:26	77:53			75:80	34:37	036
037	33:11	86:45		85:13	83:40	82:07	80:34	78:61	76:88			75:15	33:11	037
038	31:45	86:12		84:49	83:16	81:44	80:11	78:38	76:65			74:92	31:45	038
039	30:18	85:59		84:26	82:54	81:21	79:48	77:75	76:02			74:29	30:18	039
040	28:52	85:37		84:04	82:31	80:59	79:26	77:53	75:80			74:07	28:52	040
041	27:26	85:15		83:42	82:10	80:37	78:64	76:91	75:18			73:45	27:26	041
042	26:00	84:53		83:21	81:48	80:15	78:42	76:69	74:96			73:23	26:00	042
043	24:33	84:32		82:59	81:27	79:54	78:21	76:48	74:75			73:02	24:33	043
044	23:07	84:11		82:39	81:06	79:33	78:00	76:27	74:54			72:81	23:07	044
045	21:40	83:51		82:18	80:45	78:72	77:00	75:27	73:54			71:81	21:40	045
046	20:14	83:31		81:58	80:25	78:53	77:20	75:47	73:74			71:54	20:14	046
047	18:47	83:11		81:38	80:05	78:33	77:00	75:27	73:54			71:21	18:47	047
048	17:21	82:51		81:18	79:46	78:13	76:40	75:07	73:34			71:01	17:21	048
049	15:54	82:31		80:59	79:26	77:53	76:21	74:48	73:15			70:78	15:54	049

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050	14:27	82:12	80:39	79:07	77:34	76:01	74:29	72:55	71:29	70:01	68:27	66:53	65:19	050
051	13:01	81:53	80:20	78:48	77:15	75:42	74:10	72:37	71:05	70:01	68:27	66:53	65:19	051
052	11:34	81:34	80:01	78:29	76:56	75:23	73:51	72:18	70:45	70:01	68:27	66:53	65:19	052
053	10:07	81:15	79:42	78:10	76:37	75:04	73:32	72:00	70:27	70:01	68:27	66:53	65:19	053
054	8:41	80:56	79:24	78:01	76:28	74:55	73:22	71:49	70:16	70:01	68:27	66:53	65:19	054
055	7:14	80:38	79:05	77:32	75:59	74:26	72:53	71:20	69:47	70:01	68:27	66:53	65:19	055
056	5:47	80:19	78:47	77:14	75:41	74:08	72:35	71:02	69:29	70:01	68:27	66:53	65:19	056
057	4:20	80:01	78:28	76:55	75:22	73:49	72:16	70:43	69:10	70:01	68:27	66:53	65:19	057
058	2:54	79:42	78:10	76:37	75:04	73:32	72:00	70:27	69:04	70:01	68:27	66:53	65:19	058
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071	-15:54	75:39	74:07	72:34	71:01	69:29	67:56	66:23	64:50	70:01	68:27	66:53	65:19	071
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SUBSYSTEM 1
RSS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
LANDSAT MISSION MANAGEMENT FACILITY

PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
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100	-57:19	61:23	60:40	59:07	57:35	56:02	54:29	52:57	51:24	49:51	48:18	52:57	-57:19	100
101	-58:42	61:23	59:50	58:18	56:45	55:12	53:40	52:07	50:34	49:01	47:28	52:07	-58:42	101
102	-60:06	60:30	58:57	57:24	55:51	54:18	52:45	51:12	49:39	48:06	46:33	51:12	-60:06	102
103	-61:29	59:32	57:59	56:27	54:54	53:21	51:48	50:15	48:42	47:09	45:36	50:15	-61:29	103
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106	-65:35	56:10	54:35	53:02	51:29	49:56	48:23	46:50	45:17	43:44	42:11	46:50	-65:35	106
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108	-68:17	53:15	51:42	50:09	48:36	47:03	45:30	43:57	42:24	40:51	39:18	43:57	-68:17	108
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118	-80:02	18:48	17:15	15:42	14:10	12:37	11:04	9:31	7:58	6:25	4:52	9:31	-80:02	118
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133	-72:13	81:41	80:08	78:35	76:62	74:89	73:16	71:43	69:70	67:97	66:24	71:43	-72:13	133
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147	-53:06	98:35	96:62	94:89	93:16	91:43	89:70	87:97	86:24	84:51	83:18	89:70	-53:06	147

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
LANDSAT MISSION MANAGEMENT FACILITY

PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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187	4:20	-114:11	-115:44	-117:17	-118:50	-120:23	-120:56	-121:29	-122:02	-122:35	-123:08	-123:41	-124:14	187
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190	8:41	-115:07	-116:40	-118:13	-119:45	-121:18	-121:51	-122:24	-122:57	-123:30	-124:03	-124:36	-125:09	190
191	10:07	-115:26	-116:59	-118:32	-120:04	-121:37	-122:10	-122:43	-123:16	-123:49	-124:22	-124:55	-125:28	191
192	11:34	-115:45	-117:17	-118:50	-120:04	-121:37	-122:10	-122:43	-123:16	-123:49	-124:22	-124:55	-125:28	192
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195	15:54	-116:42	-118:15	-119:48	-121:20	-122:53	-123:26	-123:59	-124:32	-125:05	-125:38	-126:11	-126:44	195
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198	20:14	-117:41	-119:14	-120:47	-122:19	-123:52	-125:25	-126:58	20:14	198	
199	21:40	-118:02	-119:34	-121:07	-122:40	-124:12	-125:45	-127:18	21:40	199	
200	23:07	-118:22	-119:55	-121:27	-123:00	-124:33	-126:06	-127:39	23:07	200	
201	24:33	-118:43	-120:16	-121:48	-123:21	-124:54	-126:26	-127:59	24:33	201	
202	26:00	-119:04	-120:37	-122:09	-123:42	-125:15	-126:47	-128:20	26:00	202	
203	27:26	-119:25	-120:58	-122:31	-124:04	-125:36	-127:09	-128:42	27:26	203	
204	28:52	-119:47	-121:20	-122:53	-124:25	-125:58	-127:31	-129:04	28:52	204	
205	30:18	-120:10	-121:42	-123:15	-124:48	-126:21	-127:53	-129:26	30:18	205	
206	31:45	-120:33	-122:05	-123:38	-125:11	-126:43	-128:16	-129:49	31:45	206	
207	33:11	-120:56	-122:29	-124:01	-125:34	-127:07	-128:39	-130:12	33:11	207	
208	34:37	-121:20	-122:53	-124:25	-125:58	-127:31	-129:04	-130:36	34:37	208	
209	36:03	-121:44	-123:17	-124:50	-126:23	-127:55	-129:28	-131:01	36:03	209	
210	37:29	-122:10	-123:42	-125:15	-126:48	-128:20	-129:53	-131:26	37:29	210	
211	38:54	-122:36	-124:08	-125:41	-127:14	-128:46	-130:19	-131:52	38:54	211	
212	40:20	-123:02	-124:35	-126:08	-127:41	-129:13	-130:46	-131:19	40:20	212	
213	41:46	-123:30	-125:03	-126:36	-128:08	-129:41	-131:14	-131:46	41:46	213	
214	43:11	-123:59	-125:32	-127:04	-128:37	-130:10	-131:42	-131:15	43:11	214	
215	44:37	-124:29	-126:01	-127:34	-129:07	-130:39	-131:12	-131:45	44:37	215	
216	46:02	-124:57	-126:32	-128:05	-129:38	-131:10	-131:43	-131:16	46:02	216	
217	47:27	-125:25	-127:05	-128:37	-130:10	-131:43	-132:16	-131:48	47:27	217	
218	48:52	-125:53	-127:33	-129:04	-130:44	-132:16	-132:49	-132:22	48:52	218	
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220	51:42	-126:49	-128:29	-130:02	-131:47	-132:49	-133:22	-132:55	51:42	220	
221	53:06	-127:17	-128:57	-130:23	-132:16	-133:55	-134:28	-134:01	53:06	221	
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223	55:55	-128:13	-129:53	-131:19	-133:12	-134:12	-134:45	-135:18	55:55	223	
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225	58:42	-129:09	-130:59	-132:14	-134:07	-135:13	-136:10	-136:43	58:42	225	
226	60:06	-129:37	-131:27	-132:42	-134:35	-135:03	-136:43	-137:16	60:06	226	
227	61:29	-129:65	-131:55	-133:22	-135:02	-135:30	-136:43	-137:16	61:29	227	
228	62:51	-129:93	-132:23	-133:51	-135:30	-136:00	-137:16	-137:49	62:51	228	
229	64:14	-129:21	-132:51	-134:19	-136:00	-136:28	-137:49	-138:22	64:14	229	
230	65:37	-129:49	-133:19	-134:47	-136:28	-136:56	-138:22	-138:55	65:37	230	
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232	68:21	-129:25	-133:75	-135:42	-137:24	-137:52	-139:28	-139:61	68:21	232	
233	69:43	-129:53	-134:03	-136:10	-137:52	-138:20	-139:61	-140:34	69:43	233	
234	70:65	-129:81	-134:31	-136:38	-138:20	-138:48	-140:34	-141:07	70:65	234	
235	71:87	-129:10	-134:59	-137:04	-138:48	-138:76	-141:07	-141:40	71:87	235	
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239	77:05	-130:22	-136:51	-138:56	-140:40	-141:08	-143:19	-143:52	77:05	239	
240	78:27	-130:50	-137:19	-139:24	-141:08	-141:36	-143:52	-144:25	78:27	240	
241	79:49	-131:18	-137:47	-139:52	-141:36	-141:64	-144:25	-144:58	79:49	241	
242	80:71	-131:46	-138:15	-140:20	-142:04	-142:32	-144:58	-145:31	80:71	242	
243	81:93	-132:14	-138:43	-140:48	-142:32	-142:60	-145:31	-146:04	81:93	243	
244	83:15	-132:42	-139:11	-141:16	-143:00	-143:28	-146:04	-146:37	83:15	244	
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47	81:44	140:23		149:00	147:28	145:55	144:22	142:49	141:17				247
48	81:22	130:47		138:50	137:17	135:44	134:12	132:39	131:06				248
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001	80:47		136:03	134:31	132:58	131:25	129:53	128:20	126:47	80:47	001
002	80:02		128:34	127:01	125:29	123:56	122:23	120:51	119:18	80:02	002
003	79:08		122:12	120:39	119:06	117:34	116:01	114:28	112:55	79:08	003
004	78:08		116:49	115:16	113:43	112:11	110:38	109:05	107:33	78:08	004
005	77:03		112:16	110:44	109:11	107:38	106:05	104:33	103:00	77:03	005
006	75:54		108:25	106:53	105:20	103:47	102:14	100:42	99:09	75:54	006
007	74:43		105:08	103:35	102:03	100:30	98:57	97:25	95:52	74:43	007
008	73:29		102:19	100:46	99:13	97:40	96:08	94:35	93:02	73:29	008
009	72:13		99:51	98:19	96:46	95:13	93:40	92:08	90:35	72:13	009
010	70:55		97:12	95:40	94:07	92:34	91:01	89:28	87:55	70:55	010
011	69:37		95:49	94:16	92:43	91:10	89:37	88:05	86:32	69:37	011
012	68:17		94:07	92:35	91:02	89:29	87:57	86:24	84:51	68:17	012
013	66:57		92:37	91:04	89:31	87:59	86:26	84:53	83:20	66:57	013
014	65:35		91:15	89:42	88:09	86:37	85:04	83:31	81:59	65:35	014
015	64:14		90:00	88:28	86:55	85:22	83:50	82:17	80:44	64:14	015
016	62:51		88:52	87:20	85:47	84:14	82:42	81:09	79:36	62:51	016
017	61:29		87:50	86:17	84:45	83:12	81:39	80:07	78:34	61:29	017
018	60:06		86:52	85:20	83:47	82:14	80:42	79:09	77:36	60:06	018
019	58:44		85:09	83:36	82:04	80:31	78:58	77:26	75:53	58:44	019
020	57:19		83:59	82:26	80:54	79:21	77:48	76:15	74:42	57:19	020
021	55:55		84:22	82:50	81:17	79:44	78:12	76:39	75:06	55:55	021
022	54:31		83:39	82:06	80:33	79:01	77:28	75:55	74:22	54:31	022
023	53:06		82:57	81:25	79:52	78:19	76:47	75:14	73:41	53:06	023
024	51:42		82:18	80:46	79:13	77:40	76:07	74:35	73:02	51:42	024
025	50:17		81:41	80:08	78:36	77:03	75:30	73:58	72:25	50:17	025
026	48:52		81:06	79:33	78:00	76:28	74:55	73:22	71:50	48:52	026
027	47:27		80:32	78:59	77:27	75:54	74:21	72:49	71:16	47:27	027
028	46:02		80:00	78:27	76:55	75:22	73:49	72:16	70:44	46:02	028
029	44:37		79:29	77:56	76:24	74:51	73:18	71:45	70:13	44:37	029
030	43:11		78:59	77:27	75:54	74:21	72:48	71:16	69:43	43:11	030
031	41:46		78:31	76:58	75:25	73:52	72:20	70:47	69:14	41:46	031
032	40:20		78:03	76:30	74:57	73:25	71:52	70:19	68:47	40:20	032
033	38:54		77:36	76:03	74:31	72:58	71:25	69:53	68:20	38:54	033
034	37:29		77:10	75:37	74:05	72:32	70:59	69:27	67:54	37:29	034
035	36:03		76:45	75:12	73:39	72:07	70:34	69:01	67:29	36:03	035
036	34:37		76:20	74:48	73:15	71:42	70:10	68:37	66:17	34:37	036
037	33:11		75:56	74:24	72:51	71:18	69:45	68:13	66:40	33:11	037
038	31:45		75:33	74:00	72:28	70:55	69:22	67:49	66:17	31:45	038
039	30:18		75:10	73:37	72:05	70:32	68:59	67:27	65:54	30:18	039
040	28:52		74:48	73:15	71:42	70:10	68:37	67:04	65:32	28:52	040
041	27:26		74:26	72:53	71:20	69:48	68:15	66:42	65:10	27:26	041
042	26:00		74:04	72:32	70:59	69:26	67:53	66:21	64:48	26:00	042
043	24:33		73:43	72:10	70:38	69:05	67:32	66:00	64:27	24:33	043
044	23:07		73:22	71:50	70:17	68:44	67:12	65:39	64:06	23:07	044
045	21:40		73:02	71:29	69:56	68:24	66:51	65:18	63:46	21:40	045
046	20:14		72:42	71:09	69:36	68:04	66:31	64:58	63:25	20:14	046
047	18:47		72:27	70:49	69:16	67:44	66:11	64:38	63:06	18:47	047
048	17:21		72:02	70:29	68:57	67:24	65:51	64:19	62:46	17:21	048
049	15:54		71:43	70:10	68:37	67:04	65:32	63:59	62:26	15:54	049

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			148	149	150	151	152	153	154					
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051	13:01	71:04	69:31	67:59	66:26	64:53	63:21	61:48	60:15	58:42	57:09	55:36	54:03	051
052	11:34	70:45	69:12	67:40	66:07	64:34	63:02	61:29	59:56	58:23	56:50	55:17	53:44	052
053	10:07	70:26	68:54	67:21	65:48	64:15	62:42	61:09	59:36	58:03	56:30	54:57	53:24	053
054	8:41	70:08	68:35	67:02	65:29	63:56	62:23	60:50	59:17	57:44	56:11	54:38	53:05	054
055	7:14	69:49	68:16	66:43	65:10	63:37	62:04	60:31	58:58	57:25	55:52	54:19	52:46	055
056	5:47	69:30	67:58	66:25	64:52	63:19	61:46	60:13	58:40	57:07	55:34	54:01	52:28	056
057	4:20	69:12	67:39	66:06	64:33	63:00	61:27	59:54	58:21	56:48	55:15	53:42	52:09	057
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059	1:27	68:35	67:02	65:30	63:57	62:24	60:51	59:18	57:45	56:12	54:39	53:06	51:33	059
060	0:00	68:17	66:44	65:11	63:38	62:05	60:32	58:59	57:26	55:53	54:20	52:47	51:14	060
061	-1:27	67:58	66:25	64:52	63:19	61:46	60:13	58:40	57:07	55:34	54:01	52:28	50:55	061
062	-2:54	67:40	66:07	64:34	63:01	61:28	59:55	58:22	56:49	55:16	53:43	52:10	50:37	062
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064	-5:47	67:03	65:30	63:57	62:24	60:51	59:18	57:45	56:12	54:39	53:06	51:33	49:60	064
065	-7:14	66:44	65:11	63:39	62:06	60:33	59:00	57:27	55:54	54:21	52:48	51:15	49:42	065
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082	-31:45	61:00	59:27	57:55	56:22	54:49	53:16	51:43	50:10	48:37	47:04	45:31	43:58	082
083	-33:11	60:37	59:04	57:31	55:58	54:25	52:52	51:19	49:46	48:13	46:40	45:07	43:34	083
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101	-58:42		50:34		49:01		47:29		45:56		44:23		42:51		41:18	-58:42	101
102	-60:06		49:41		48:08		46:35		45:03		43:30		41:57		40:24	-60:06	102
103	-61:29		48:43		47:10		45:38		44:05		42:32		41:00		39:27	-61:29	103
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114	-75:54		28:08		26:35		25:02		23:30		21:57		20:24		18:52	-75:54	114
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ROW	LATITUDE	PATH:	L	U	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
197	18:47	-128:10	-129:43	-131:16	-132:48	-134:21	-135:54	-137:27	-138:59	-140:32	-142:05	-143:38	18:47	197
198	20:14	-128:30	-130:03	-131:36	-133:08	-134:41	-136:14	-137:46	-139:19	-140:52	-142:25	-143:58	20:14	198
199	21:40	-128:50	-130:23	-131:56	-133:28	-135:01	-136:34	-138:07	-139:40	-141:13	-142:46	-144:19	21:40	199
200	23:07	-129:11	-130:44	-132:16	-133:49	-135:22	-136:55	-138:27	-140:00	-141:33	-143:06	-144:39	23:07	200
201	24:33	-129:32	-131:04	-132:37	-134:10	-135:43	-137:15	-138:48	-140:20	-141:53	-143:26	-144:59	24:33	201
202	26:00	-129:53	-131:25	-132:58	-134:31	-136:04	-137:36	-139:09	-140:42	-142:15	-143:48	-145:21	26:00	202
203	27:26	-130:14	-131:47	-133:20	-134:52	-136:25	-137:58	-139:31	-140:52	-142:25	-143:58	-145:21	27:26	203
204	28:52	-130:36	-132:09	-133:42	-135:14	-136:47	-138:20	-139:53	-141:05	-142:38	-144:11	-145:44	28:52	204
205	30:18	-130:59	-132:31	-134:04	-135:37	-137:09	-138:42	-140:15	-141:28	-142:52	-144:25	-145:57	30:18	205
206	31:45	-131:21	-132:54	-134:27	-136:00	-137:32	-139:05	-140:38	-141:51	-143:15	-144:48	-146:21	31:45	206
207	33:11	-131:45	-133:18	-134:50	-136:23	-137:56	-139:28	-140:51	-142:04	-143:28	-144:51	-146:24	33:11	207
208	34:37	-132:09	-133:43	-135:14	-136:47	-138:20	-139:52	-141:05	-142:18	-143:42	-145:15	-146:48	34:37	208
209	36:03	-132:33	-134:06	-135:39	-137:11	-138:44	-140:17	-141:30	-142:43	-144:07	-145:30	-146:53	36:03	209
210	37:29	-132:59	-134:31	-136:04	-137:37	-139:09	-140:42	-141:55	-143:08	-144:32	-145:55	-147:18	37:29	210
211	38:54	-133:25	-134:57	-136:30	-138:03	-139:35	-141:08	-142:21	-143:34	-144:58	-146:21	-147:44	38:54	211
212	40:20	-133:51	-135:24	-136:57	-138:29	-140:02	-141:35	-142:48	-144:01	-145:25	-146:48	-148:11	40:20	212
213	41:46	-134:19	-135:52	-137:25	-138:57	-140:30	-141:53	-143:06	-144:29	-145:52	-147:15	-148:38	41:46	213
214	43:11	-134:48	-136:20	-138:42	-139:26	-140:59	-142:12	-143:25	-144:48	-146:11	-147:34	-148:57	43:11	214
215	44:37	-135:18	-136:50	-139:14	-139:58	-141:28	-142:41	-143:54	-145:17	-146:40	-148:03	-149:26	44:37	215
216	46:02	-135:48	-137:21	-139:44	-140:28	-141:57	-143:10	-144:23	-145:46	-147:09	-148:32	-149:55	46:02	216
217	47:27	-136:21	-137:53	-140:16	-140:59	-142:29	-143:42	-144:55	-146:18	-147:41	-149:04	-150:27	47:27	217
218	48:52	-136:54	-138:27	-140:50	-141:33	-143:05	-144:18	-145:31	-146:54	-148:17	-149:40	-151:03	48:52	218
219	50:17	-137:30	-139:02	-140:35	-141:18	-143:41	-144:54	-146:17	-147:40	-149:03	-150:26	-151:49	50:17	219
220	51:42	-138:07	-139:40	-141:12	-141:55	-143:18	-144:31	-145:44	-146:67	-147:90	-149:13	-150:36	51:42	220
221	53:06	-138:46	-140:19	-141:51	-142:34	-144:07	-145:20	-146:43	-148:06	-149:29	-150:52	-152:15	53:06	221
222	54:31	-139:27	-141:00	-142:33	-143:16	-144:49	-146:12	-147:35	-148:58	-150:21	-151:44	-153:07	54:31	222
223	55:55	-140:11	-141:44	-143:16	-144:00	-145:33	-146:56	-148:19	-149:42	-151:05	-152:28	-153:51	55:55	223
224	57:19	-140:58	-142:30	-144:03	-144:47	-146:20	-147:43	-149:06	-150:29	-151:52	-153:15	-154:38	57:19	224
225	58:42	-141:48	-143:14	-144:47	-145:31	-146:54	-148:17	-149:40	-151:03	-152:26	-153:49	-155:12	58:42	225
226	60:06	-142:41	-144:14	-145:46	-146:30	-147:53	-149:16	-150:39	-151:62	-152:85	-154:08	-155:31	60:06	226
227	61:29	-143:39	-145:11	-146:44	-147:27	-148:50	-150:13	-151:36	-152:59	-154:22	-155:45	-157:08	61:29	227
228	62:51	-144:41	-146:14	-147:46	-148:29	-149:52	-151:15	-152:38	-153:61	-154:84	-156:07	-157:30	62:51	228
229	64:14	-145:49	-147:22	-148:54	-150:17	-151:40	-152:63	-153:86	-155:09	-156:32	-157:55	-159:18	64:14	229
230	65:35	-147:03	-148:36	-150:09	-151:31	-152:54	-154:17	-155:40	-156:63	-157:86	-159:09	-160:32	65:35	230
231	66:57	-148:25	-149:58	-151:31	-152:54	-154:17	-155:40	-156:63	-157:86	-159:09	-160:32	-161:55	66:57	231
232	68:17	-149:56	-151:29	-153:01	-154:24	-155:47	-156:70	-157:93	-159:16	-160:39	-161:62	-162:85	68:17	232
233	69:37	-151:37	-153:10	-154:33	-155:56	-157:19	-158:42	-159:65	-160:88	-162:11	-163:34	-164:57	69:37	233
234	70:55	-153:31	-155:04	-156:27	-157:50	-159:13	-160:36	-161:59	-163:22	-164:45	-165:68	-166:91	70:55	234
235	72:13	-155:40	-157:13	-158:36	-160:00	-161:23	-162:46	-163:69	-164:92	-166:15	-167:38	-168:61	72:13	235
236	73:29	-158:07	-159:40	-161:12	-162:35	-163:58	-165:21	-166:44	-167:67	-168:90	-170:13	-171:36	73:29	236
237	74:43	-160:57	-162:29	-164:02	-165:25	-166:48	-168:11	-169:34	-170:57	-172:20	-173:43	-174:66	74:43	237
238	75:54	-164:14	-165:47	-167:19	-168:42	-169:65	-170:88	-172:11	-173:34	-174:57	-176:20	-177:43	75:54	238
239	77:03	-168:05	-169:37	-171:10	-172:33	-173:56	-175:19	-176:42	-177:65	-178:88	-180:11	-181:34	77:03	239
240	78:08	-172:37	-173:69	-175:01	-176:24	-177:47	-178:70	-179:93	-181:16	-182:39	-183:62	-184:85	78:08	240
241	79:08	-178:00	-179:32	-180:64	-181:96	-183:28	-184:60	-185:92	-187:24	-188:56	-190:28	-191:60	79:08	241
242	80:02	-175:57	-177:29	-178:61	-179:93	-181:25	-182:57	-184:29	-185:61	-186:93	-188:25	-189:57	80:02	242
243	80:47	-168:08	-169:40	-171:12	-172:44	-173:76	-175:08	-176:40	-177:72	-179:04	-180:36	-181:68	80:47	243
244	81:22	-159:30	-161:02	-162:34	-164:06	-165:38	-167:10	-168:42	-169:74	-171:06	-172:38	-173:70	81:22	244
245	81:44	-149:55	-151:27	-152:59	-154:31	-156:03	-157:35	-158:67	-160:00	-161:32	-162:64	-163:96	81:44	245

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
246	81:51	139:44	148	149	150	151	152	153	154				81:51	246
247	81:44	129:34	139:44	138:11	136:39	135:06	133:33	132:01	130:28				81:44	247
248	81:22	119:58	129:34	128:01	126:28	124:56	123:23	121:50	120:17				81:22	248
			119:58	118:25	116:52	115:20	113:47	112:14	110:41					

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	TITUDE	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
---	----	---	---	---	---	---	---	---	---	---	-----	-----	---
001	80:47	15	123:42	122:09	120:36	119:04	117:31	115:58	114:25	112:52	111:19	80:47	001
002	80:47	15	118:13	114:40	113:07	111:34	109:02	107:29	105:56	104:23	102:50	80:47	002
003	79:08	15	109:50	108:17	106:45	105:12	103:39	102:06	100:33	99:00	97:27	79:08	003
004	78:08	15	104:27	102:54	101:22	99:49	98:16	96:43	95:10	93:37	92:04	78:08	004
005	77:03	15	99:55	98:22	96:49	95:16	93:43	92:10	90:37	89:04	87:31	77:03	005
006	75:54	15	92:15	90:42	89:09	87:36	86:03	84:30	82:57	81:24	79:51	75:54	006
007	74:43	15	89:57	88:24	86:51	85:18	83:45	82:12	80:39	79:06	77:33	74:43	007
008	73:29	15	87:43	86:10	84:37	83:04	81:31	79:58	78:25	76:52	75:19	73:29	008
009	72:13	15	85:21	83:48	82:15	80:42	79:09	77:36	75:63	73:90	72:17	72:13	009
010	70:55	15	83:27	81:54	80:21	78:48	77:15	75:42	73:69	71:96	70:23	70:55	010
011	69:37	15	81:16	79:43	78:10	76:37	74:64	72:91	71:18	69:45	68:12	69:37	011
012	68:17	15	80:15	78:42	77:09	75:36	73:63	71:90	70:17	68:44	67:11	68:17	012
013	66:57	15	78:53	77:20	75:47	73:74	72:01	70:28	68:55	67:22	65:49	66:57	013
014	65:35	15	77:39	75:66	73:93	72:20	70:47	69:14	67:41	65:68	63:95	65:35	014
015	64:14	15	76:31	74:58	73:25	71:52	70:19	68:46	67:13	65:40	63:67	64:14	015
016	62:51	15	75:28	73:55	72:22	70:49	69:16	67:43	66:10	64:37	62:64	62:51	016
017	61:29	15	74:31	72:58	71:25	69:52	68:19	66:46	65:13	63:40	61:67	61:29	017
018	60:06	15	73:37	71:64	70:01	68:28	66:55	65:22	63:49	62:16	60:43	60:06	018
019	58:42	15	72:47	70:74	69:01	67:28	65:55	64:22	62:49	61:16	59:43	58:42	019
020	57:19	15	72:01	69:44	68:11	66:38	64:65	62:92	61:19	59:46	58:13	57:19	020
021	55:55	15	71:17	69:00	67:27	65:54	64:21	62:48	61:15	59:42	58:09	55:55	021
022	54:31	15	70:36	68:19	66:46	65:13	63:40	62:07	60:34	58:61	56:88	54:31	022
023	53:06	15	69:57	67:40	65:67	63:94	62:21	60:48	59:15	57:42	56:09	53:06	023
024	51:42	15	69:12	66:55	64:82	63:09	61:36	59:63	57:90	56:17	54:44	51:42	024
025	50:17	15	68:44	66:27	64:14	62:41	60:68	58:95	57:22	55:49	54:16	50:17	025
026	48:52	15	68:11	65:54	63:41	61:68	59:95	58:22	56:49	55:16	53:43	48:52	026
027	47:27	15	67:38	65:21	63:08	61:35	59:62	57:89	56:16	54:43	53:10	47:27	027
028	46:02	15	67:07	64:50	62:37	60:64	58:91	57:18	55:45	54:12	52:39	46:02	028
029	44:37	15	66:38	64:21	62:08	60:35	58:62	56:89	55:16	53:43	52:10	44:37	029
030	43:11	15	66:09	63:52	61:39	59:66	57:93	56:20	54:47	53:14	51:41	43:11	030
031	41:46	15	65:41	63:24	61:11	59:38	57:65	55:92	54:19	52:46	51:13	41:46	031
032	40:20	15	65:14	62:57	60:44	58:71	56:98	55:25	53:52	52:19	50:46	40:20	032
033	38:54	15	64:48	62:30	60:17	58:44	56:71	54:98	53:25	51:52	50:19	38:54	033
034	37:29	15	64:23	62:05	60:02	58:29	56:56	55:23	53:50	52:17	50:44	37:29	034
035	36:03	15	63:59	62:26	60:23	58:50	57:17	55:44	54:11	52:38	51:05	36:03	035
036	34:37	15	63:35	62:02	60:09	58:36	56:63	54:90	53:17	51:44	50:11	34:37	036
037	33:11	15	63:11	61:39	59:46	58:13	56:40	54:67	52:94	51:21	49:48	33:11	037
038	31:45	15	62:44	61:16	59:23	57:50	56:17	54:44	53:11	51:38	49:65	31:45	038
039	30:18	15	62:21	60:53	58:60	56:87	55:14	53:41	52:08	50:35	48:62	30:18	039
040	28:52	15	62:04	60:31	58:38	56:65	54:92	53:19	51:46	50:13	48:40	28:52	040
041	27:26	15	61:43	60:10	58:17	56:44	55:11	53:38	52:05	50:32	48:59	27:26	041
042	26:00	15	61:22	59:49	57:56	56:23	54:50	53:17	51:44	50:11	48:38	26:00	042
043	24:33	15	61:01	59:28	57:35	56:02	54:29	52:56	51:23	49:50	48:17	24:33	043
044	23:07	15	60:40	59:08	57:15	55:42	54:09	52:36	51:03	49:30	47:57	23:07	044
045	21:40	15	60:20	58:47	56:54	55:21	53:48	52:15	50:42	49:09	47:36	21:40	045
046	20:14	15	60:00	58:27	56:34	55:01	53:28	51:55	50:22	48:49	47:16	20:14	046
047	18:47	15	59:40	58:08	56:15	54:42	53:09	51:36	50:03	48:30	46:57	18:47	047
048	17:21	15	59:21	57:48	55:54	54:21	52:48	51:15	49:42	48:09	46:36	17:21	048
049	15:54	15	59:04	57:31	55:38	54:05	52:32	50:59	49:26	47:53	46:20	15:54	049

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		155			156		157		158		159	160		
050	1:127	60134	59102	57:29	55:56	54:23	52:51	51:18	50:18	49:07	48:10	47:15	14:27	050
051	13:01	60115	58142	57:10	55:37	54:04	52:32	50:59	49:12	47:53	46:12	44:33	13:01	051
052	11:34	59156	58123	56:51	55:18	53:45	52:12	50:39	48:52	47:16	45:35	43:54	11:34	052
053	10:07	59127	58105	56:32	54:59	53:26	51:54	50:21	48:34	46:58	45:17	43:36	10:07	053
054	8:41	59119	57146	56:13	54:40	53:08	51:35	50:02	48:15	46:39	44:58	43:17	8:41	054
055	7:14	59100	57127	55:55	54:22	52:50	51:17	49:44	47:57	46:18	44:37	42:56	7:14	055
056	5:47	58141	57109	55:36	54:03	52:31	50:58	49:12	47:34	45:53	44:12	42:31	5:47	056
057	4:20	58123	56150	55:17	53:45	52:12	50:39	48:52	47:16	45:35	43:54	42:13	4:20	057
058	2:54	58104	56132	54:59	53:26	51:54	50:21	48:34	46:58	45:17	43:36	41:55	2:54	058
059	1:27	57146	56113	54:41	53:08	51:35	50:02	48:15	46:39	44:58	43:17	41:36	1:27	059
060	0:00	57:28	55:55	54:22	52:50	51:17	49:44	47:57	46:18	44:37	42:56	41:15	0:00	060
061	-1:27	57:109	55:36	54:04	52:31	50:58	49:12	47:34	45:53	44:12	42:31	40:50	-1:27	061
062	-2:54	56:51	55:18	53:45	52:12	50:39	48:52	47:16	45:35	43:54	42:13	40:32	-2:54	062
063	-4:20	56:32	55:00	53:27	51:54	50:21	48:34	46:58	45:17	43:36	41:55	40:14	-4:20	063
064	-5:47	56:14	54:41	53:08	51:36	50:03	48:15	46:39	44:58	43:17	41:36	39:55	-5:47	064
065	-7:14	55:55	54:23	52:50	51:17	49:44	47:57	46:18	44:37	42:56	41:15	39:34	-7:14	065
066	-8:41	55:37	54:04	52:31	50:58	49:12	47:34	45:53	44:12	42:31	40:50	39:13	-8:41	066
067	-10:07	55:18	53:45	52:12	50:39	48:52	47:16	45:35	43:54	42:13	40:32	38:52	-10:07	067
068	-11:34	54:59	53:26	51:54	50:21	48:34	46:58	45:17	43:36	41:55	40:14	38:31	-11:34	068
069	-13:01	54:40	53:07	51:35	50:02	48:15	46:39	44:58	43:17	41:36	39:55	38:10	-13:01	069
070	-14:27	54:21	52:48	51:15	49:42	47:55	46:18	44:37	42:56	41:15	39:34	37:53	-14:27	070
071	-15:54	54:02	52:29	50:56	49:23	47:31	45:54	44:12	42:31	40:50	39:13	37:32	-15:54	071
072	-17:21	53:42	52:09	50:37	48:54	47:11	45:28	43:46	42:05	40:24	38:43	37:02	-17:21	072
073	-18:47	53:22	51:50	50:17	48:34	46:51	45:08	43:26	41:45	39:64	37:83	36:02	-18:47	073
074	-20:14	53:02	51:30	49:57	48:14	46:31	44:48	43:06	41:25	39:44	37:63	35:82	-20:14	074
075	-21:40	52:42	51:10	49:37	47:54	46:11	44:28	42:46	40:65	38:84	37:03	35:22	-21:40	075
076	-23:07	52:22	50:49	49:16	47:33	45:50	44:07	42:25	40:44	38:63	36:82	35:01	-23:07	076
077	-24:33	52:01	50:28	48:56	47:13	45:30	43:47	42:05	40:24	38:43	36:62	34:81	-24:33	077
078	-26:00	51:40	50:07	48:34	46:51	45:08	43:26	41:45	39:64	37:83	36:02	34:21	-26:00	078
079	-27:26	51:18	49:46	48:13	46:30	44:47	43:05	41:24	39:43	37:62	35:81	34:00	-27:26	079
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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	M	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
			155	156	157	158	159	160	161	162	163			
099	-55:55	41:22	39:49	38:16	36:44	35:11	33:38	32:05					-55:55	099
100	-57:14	40:35	39:02	37:30	35:57	34:24	32:52	31:19					-57:14	100
101	-58:42	39:45	38:12	36:40	35:07	33:34	32:02	30:29					-58:42	101
102	-60:06	38:52	37:19	35:46	34:13	32:40	31:08	29:36					-60:06	102
103	-61:29	37:54	36:21	34:49	33:16	31:43	30:11	28:38					-61:29	103
104	-62:51	36:52	35:19	33:46	32:14	30:41	29:08	27:35					-62:51	104
105	-64:14	35:44	34:11	32:38	31:06	29:33	28:00	26:28					-64:14	105
106	-65:35	34:29	32:57	31:24	29:51	28:19	26:46	25:13					-65:35	106
107	-66:57	33:08	31:35	30:02	28:29	26:57	25:24	23:51					-66:57	107
108	-68:17	31:37	30:04	28:31	26:59	25:26	23:53	22:21					-68:17	108
109	-69:37	29:56	28:23	26:50	25:17	23:45	22:12	20:39					-69:37	109
110	-70:55	28:02	26:29	24:56	23:23	21:51	20:18	18:46					-70:55	110
111	-72:13	25:53	24:20	22:47	21:15	19:42	18:09	16:37					-72:13	111
112	-73:29	23:26	21:53	20:20	18:48	17:15	15:42	14:09					-73:29	112
113	-74:43	20:36	19:03	17:31	15:58	14:25	12:53	11:20					-74:43	113
114	-75:54	17:19	15:46	14:13	12:41	11:08	9:35	8:03					-75:54	114
115	-77:03	13:28	11:55	10:23	8:50	7:17	5:44	4:12					-77:03	115
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118	-80:02	2:50	1:18										-80:02	118
119	-81:22	18:57	17:24	15:51	14:18	12:45	11:12	9:39					-81:22	119
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139	-62:51	153:13	151:40	149:67	147:94	146:21	144:48	143:15					-62:51	139
140	-61:29	154:13	152:40	150:67	148:94	147:21	145:48	144:15					-61:29	140
141	-60:06	155:13	153:40	151:67	149:94	148:21	146:48	145:15					-60:06	141
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144	-55:55	158:13	156:40	154:67	152:94	151:21	149:48	148:15					-55:55	144
145	-54:31	159:13	157:40	155:67	153:94	152:21	150:48	149:15					-54:31	145
146	-53:06	160:13	158:40	156:67	154:94	153:21	151:48	150:15					-53:06	146
147														147

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ROW	LATITUDE	PATH:	L	U	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	RUN
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149	-50117	-121129	-123102	-124135	-126107	-127140	-129113	-130146	-50117	149				
150	-48152	-122105	-123137	-125110	-126143	-128116	-129149	-131121	-48152	150				
151	-47127	-122138	-124111	-125144	-127116	-128149	-130122	-131155	-47127	151				
152	-46102	-123111	-124143	-126116	-127149	-129152	-131125	-132158	-46102	152				
153	-44137	-123142	-125114	-126147	-128120	-129152	-131125	-132158	-44137	153				
154	-43111	-124111	-125144	-127117	-128149	-130122	-131155	-132158	-43111	154				
155	-41146	-124140	-126113	-127145	-129118	-130151	-131155	-132158	-41146	155				
156	-40120	-125108	-126140	-128113	-129146	-131119	-132151	-133124	-40120	156				
157	-38154	-125135	-127107	-128140	-130139	-131145	-132151	-133124	-38154	157				
158	-07129	-126101	-127133	-129106	-130139	-132111	-133144	-135117	-07129	158				
159	-36103	-126126	-127158	-129131	-131104	-132137	-134109	-135142	-36103	159				
160	-34137	-126150	-128123	-129156	-131128	-132137	-134109	-135142	-34137	160				
161	-33111	-127114	-128147	-130120	-131152	-132137	-134109	-135142	-33111	161				
162	-31145	-127138	-129110	-130143	-132116	-133148	-135121	-136154	-31145	162				
163	-30118	-128100	-129133	-131106	-132139	-134134	-136106	-137139	-30118	163				
164	-28152	-128123	-129156	-131128	-133101	-134134	-136106	-137139	-28152	164				
165	-27126	-128145	-130117	-131150	-133123	-134156	-136128	-138101	-27126	165				
166	-26100	-129106	-130139	-132133	-134144	-135117	-136150	-138101	-26100	166				
167	-24133	-129127	-131100	-132154	-134126	-135138	-137111	-138101	-24133	167				
168	-23107	-129148	-131121	-133134	-134147	-135159	-137132	-139104	-23107	168				
169	-21140	-130109	-131141	-133144	-134147	-135159	-137132	-139104	-21140	169				
170	-20114	-130129	-132102	-133134	-134147	-135159	-137132	-139104	-20114	170				
171	-18149	-131109	-132122	-133144	-134147	-135159	-137132	-139104	-18149	171				
172	-17121	-131128	-132141	-133144	-134147	-135159	-137132	-139104	-17121	172				
173	-15154	-131147	-133101	-134133	-135122	-136106	-137139	-139112	-15154	173				
174	-14127	-132106	-133139	-134153	-135145	-136106	-137139	-139112	-14127	174				
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176	-11134	-132144	-134117	-135150	-136106	-137139	-139112	-140109	-11134	176				
177	-10107	-133103	-134154	-135158	-136106	-137139	-139112	-140109	-10107	177				
178	-8141	-133122	-134154	-135158	-136106	-137139	-139112	-140109	-8141	178				
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180	-5147	-133159	-135131	-136106	-137139	-139112	-140109	-141124	-5147	180				
181	-4120	-134117	-135150	-136106	-137139	-139112	-140109	-141124	-4120	181				
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185	1127	-135131	-137104	-138155	-140128	-142101	-143133	-144129	1127	185				
186	2154	-135149	-137122	-138155	-140128	-142101	-143133	-144129	2154	186				
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ROW	LATITUDE	PATH:	155	L	U	N	G	I	T	U	D	E	(DEGREES/MINUTES)	159	160	161	LATITUDE	ROW
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200	23107		-140100	-141133	-143105	-144138	-146111	-147143	-148176	-149191	23107	200						
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238	75154		-175103	-175135	-176168	-177200	-178233	-179266	-180299	-181314	75154	238						
239	77103		-178154	-178186	-179219	-180251	-181284	-182317	-183350	-184365	77103	239						
240	78108		-176134	-176166	-177199	-178231	-179264	-180297	-181330	-182345	78108	240						
241	79108		-171111	-171143	-172176	-173208	-174241	-175274	-176307	-177322	79108	241						
242	80102		-164148	-164180	-165213	-166245	-167278	-168311	-169344	-170359	80102	242						
243	80147		-157119	-157151	-158184	-159216	-160249	-161282	-162315	-163330	80147	243						
244	81122		-148142	-148174	-149207	-150239	-151272	-152305	-153338	-154353	81122	244						
245	81144		-139106	-139138	-140171	-141203	-142236	-143269	-144302	-145317	81144	245						

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GUARDIAN SPACE FLIGHT CENTER
LANDSAT MISSION MANAGEMENT FACILITY

REPORT : KF1300
SUBSYSTEM : RSS

PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
---	-----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	---
246	81:51	128:55	155	156	157	158	159	160	161	162	163	164	81:51	246
247	81:44	118:45	128:55	127:22	125:50	124:17	122:44	121:12	119:39	118:06	116:33	115:01	81:44	247
248	81:22	109:09	118:45	117:12	115:39	114:07	112:34	111:01	109:28	107:55	106:22	104:50	81:22	248

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
LANDSAT MISSION MANAGEMENT FACILITY
PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

REPORT : RF1300
SUBSYSTEM : RSS

ROW	LATITUDE	PATHS	L	U	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
001	80:47	114:26	162		163		164		165		166	167	168	001
002	80:02	106:56			112:53		111:20		109:48		108:15	106:42	105:09	002
003	79:08	100:34			105:24		103:51		102:18		100:45	98:13	97:40	003
004	78:08	95:11			99:01		97:28		95:56		94:23	92:50	91:18	004
005	77:03	90:38			83:06		81:33		80:00		78:27	76:54	75:22	005
006	75:54	86:47			85:15		83:42		82:09		80:37	79:04	77:31	006
007	74:43	83:30			81:58		80:25		78:52		77:19	75:47	74:14	007
008	73:29	80:41			79:08		77:35		76:03		74:30	72:57	71:24	008
009	72:13	78:13			76:41		75:08		73:35		72:03	70:30	68:57	009
010	70:55	76:04			74:32		72:59		71:26		69:54	68:21	66:48	010
011	69:37	74:11			72:38		71:05		69:33		68:00	66:27	64:54	011
012	68:17	72:29			70:57		69:24		67:51		66:19	64:46	63:13	012
013	66:57	70:59			69:26		67:53		66:21		64:48	63:15	61:43	013
014	65:35	69:37			68:04		66:31		64:59		63:26	61:53	60:21	014
015	64:14	68:23			66:50		65:17		63:44		62:12	60:39	59:06	015
016	62:51	67:15			65:42		64:09		62:36		60:04	58:31	56:58	016
017	61:29	66:12			64:39		63:07		61:34		59:04	57:31	55:58	017
018	60:06	65:15			63:42		62:10		60:36		58:06	56:33	54:60	018
019	58:42	64:21			62:48		61:16		59:43		57:10	55:38	53:65	019
020	57:19	63:31			61:59		60:26		58:53		56:20	54:47	52:74	020
021	55:55	62:45			61:12		59:39		58:06		55:33	53:60	51:87	021
022	54:31	61:01			60:28		58:55		57:23		54:50	53:17	51:44	022
023	53:06	60:40			59:47		58:14		56:41		54:08	52:35	50:62	023
024	51:42	60:03			58:31		56:58		55:25		52:52	51:19	49:46	024
025	50:17	59:28			57:15		55:42		54:09		51:36	50:03	48:30	025
026	48:52	58:54			56:49		55:17		53:44		51:11	49:38	47:65	026
027	47:27	58:22			56:18		54:46		53:13		50:40	49:07	47:34	027
028	46:02	57:51			55:49		54:16		52:43		50:10	48:37	46:64	028
029	44:37	57:21			55:20		53:47		52:15		49:42	48:10	46:37	029
030	43:11	56:53			54:52		53:20		51:47		49:14	47:42	45:69	030
031	41:46	56:25			54:25		52:53		51:20		48:47	47:15	45:42	031
032	40:20	55:58			53:59		52:27		50:54		48:21	46:49	45:16	032
033	38:54	55:32			53:34		52:02		50:30		47:57	46:25	44:52	033
034	37:29	55:07			53:10		51:37		50:04		47:34	46:02	44:30	034
035	36:03	54:42			52:46		51:13		49:40		47:07	45:35	44:03	035
036	34:37	54:18			52:22		50:50		49:17		46:44	45:12	43:40	036
037	33:11	53:55			52:00		50:27		48:54		46:21	44:49	43:17	037
038	31:45	53:32			51:37		50:04		48:32		46:00	44:28	42:56	038
039	30:18	53:10			51:15		49:43		48:10		45:37	44:05	42:33	039
040	28:52	52:48			50:54		49:21		47:48		45:15	43:43	42:11	040
041	27:26	52:26			50:33		49:00		47:27		44:53	43:21	41:89	041
042	26:00	52:05			50:12		48:39		47:06		44:33	43:01	41:69	042
043	24:33	51:45			49:51		48:19		46:46		44:13	42:41	41:09	043
044	23:07	51:24			49:31		47:58		46:26		43:54	42:22	40:48	044
045	21:40	51:04			49:11		47:36		46:00		43:32	42:00	40:26	045
046	20:14	50:44			48:51		47:13		45:46		43:01	41:29	39:57	046
047	18:47	50:24			48:32		46:59		45:26		42:44	41:12	39:40	047
048	17:21	50:05			48:13		46:40		45:07		42:27	40:55	39:23	048
049	15:54				47:54		46:19		44:46		42:04	40:32	39:00	049

REPORT : RFI300
SUBSYSTEM : ASJ

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
LANDSAT MISSION MANAGEMENT FACILITY

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PAIRS ON EARTH

ROW	LATITUDE	PATH:	162	L	N	G	I	T	U	D	E	(DEGREES/MINUTES)	166	167	168	LATITUDE	ROW
050	14127	49145	48113	46140	45107	43135	42102	40129	14127	050						14127	050
051	13101	49126	47154	46121	44148	43115	41143	39151	13101	051						13101	051
052	11134	49107	47135	46102	44129	42156	41124	39159	11134	052						11134	052
053	10107	48148	47116	45143	44110	42138	41105	39132	10107	053						10107	053
054	8141	48130	45157	45124	43152	42119	40146	38155	8141	054						8141	054
055	7114	48111	45138	45106	43133	42100	40128	38155	7114	055						7114	055
056	5147	47152	44120	44147	43114	41142	39150	38136	5147	056						5147	056
057	4120	47134	43101	44129	42156	41123	39150	38118	4120	057						4120	057
058	2154	47116	43116	44110	42137	41105	39132	37159	2154	058						2154	058
059	1127	46157	43124	43152	42119	40146	39114	37141	1127	059						1127	059
060	0100	46139	43106	43133	42101	40128	38155	37122	0100	060						0100	060
061	-1127	46120	44148	43115	41142	40109	38137	37104	-1127	061						-1127	061
062	-2154	46102	44129	42156	41124	39151	38118	36146	-2154	062						-2154	062
063	-4120	45143	44111	42138	41105	39133	38100	36127	-4120	063						-4120	063
064	-5147	45125	43152	42119	40147	38156	37123	36109	-5147	064						-5147	064
065	-7114	45106	43134	42101	40128	38156	37104	35150	-7114	065						-7114	065
066	-8141	44148	43115	41142	40110	38137	37104	35131	-8141	066						-8141	066
067	-10107	44129	42156	41124	39151	38118	36145	35113	-10107	067						-10107	067
068	-11134	44110	42137	41105	39132	37159	36127	34154	-11134	068						-11134	068
069	-13101	43151	42118	40146	38115	37140	36108	34135	-13101	069						-13101	069
070	-14127	43132	41159	40127	38154	37121	35148	34116	-14127	070						-14127	070
071	-15154	43113	41140	40107	38135	37102	35129	33156	-15154	071						-15154	071
072	-17121	42153	41120	39148	38115	36142	35110	33137	-17121	072						-17121	072
073	-18147	42133	41101	39128	37155	36123	34150	33117	-18147	073						-18147	073
074	-20114	42114	40141	39108	37135	36103	34130	32157	-20114	074						-20114	074
075	-21140	41153	40121	38148	37115	36143	34110	32137	-21140	075						-21140	075
076	-23107	41133	40100	38127	36155	35122	33149	32117	-23107	076						-23107	076
077	-24133	41112	39139	38107	36133	35101	33129	31156	-24133	077						-24133	077
078	-26100	40151	39118	37145	36113	34140	33107	31135	-26100	078						-26100	078
079	-27126	40129	38157	37124	35151	34119	32146	31113	-27126	079						-27126	079
080	-28152	40107	38135	37102	35129	34117	32142	30151	-28152	080						-28152	080
081	-30118	39145	38112	36140	35107	33134	32102	30129	-30118	081						-30118	081
082	-31145	39122	37150	36117	34144	33111	31139	30106	-31145	082						-31145	082
083	-33111	38159	37126	35154	34121	32149	30151	29143	-33111	083						-33111	083
084	-34137	38135	37102	35130	33157	32124	30151	29119	-34137	084						-34137	084
085	-36103	38110	36138	35105	33152	32100	30127	28154	-36103	085						-36103	085
086	-37129	37145	36112	34140	33107	31134	30102	28129	-37129	086						-37129	086
087	-38154	37119	35146	34114	32141	31108	29136	28103	-38154	087						-38154	087
088	-40120	36152	35120	33120	32114	31108	29109	27136	-40120	088						-40120	088
089	-41146	36125	34152	33119	31147	30114	28141	27108	-41146	089						-41146	089
090	-43111	35156	33154	32151	31118	29145	28112	26140	-43111	090						-43111	090
091	-44137	35126	33154	32121	30148	29115	27143	26110	-44137	091						-44137	091
092	-46102	34155	33123	31150	30117	28144	27112	25139	-46102	092						-46102	092
093	-47127	34123	32150	31118	29145	28112	26140	25107	-47127	093						-47127	093
094	-48152	33149	32117	30144	29111	27139	26106	24133	-48152	094						-48152	094
095	-50117	33114	31141	30109	28136	27103	25131	23159	-50117	095						-50117	095
096	-51142	32137	31104	29132	27159	26126	24153	23121	-51142	096						-51142	096
097	-53106	31158	30125	28152	27120	25147	24114	23142	-53106	097						-53106	097
098	-54131	31117	29144	28111	26138	25106	23133	22100	-54131	098						-54131	098

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REPORT : RF 800
SUBSYSTEM : RSS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
LANDSAT MISSION MANAGEMENT FACILITY

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
			162	163	164	165	166	167	168					
099	-55:55	30133	29:00	27:27	25:55	24:22	22:49	21:17	-55:55	099				
100	-57:19	29:46	28:13	26:41	25:08	23:35	22:03	20:30	-57:19	100				
101	-58:42	28:56	27:24	25:51	24:18	22:45	21:13	19:40	-58:42	101				
102	-60:06	28:03	26:10	24:37	23:04	21:31	20:00	18:27	-60:06	102				
103	-61:29	27:05	25:12	23:39	22:06	20:33	19:00	17:27	-61:29	103				
104	-62:51	26:03	24:10	22:37	21:04	19:31	17:58	16:25	-62:51	104				
105	-64:14	24:55	23:02	21:29	19:56	18:23	16:50	15:17	-64:14	105				
106	-65:35	23:40	21:47	20:14	18:41	17:08	15:35	14:02	-65:35	106				
107	-66:57	22:19	20:18	18:45	17:12	15:39	14:06	12:33	-66:57	107				
108	-68:17	20:48	18:15	16:42	15:09	13:36	12:03	10:30	-68:17	108				
109	-69:37	19:07	17:34	16:01	14:28	12:55	11:22	9:49	-69:37	109				
110	-70:55	17:13	15:40	14:07	12:34	11:01	9:28	7:55	-70:55	110				
111	-72:11	15:04	13:31	11:58	10:25	8:52	7:19	5:46	-72:11	111				
112	-73:29	12:37	11:04	9:31	7:58	6:25	4:52	3:19	-73:29	112				
113	-74:43	9:47	8:14	6:41	5:08	3:35	2:02	0:29	-74:43	113				
114	-75:54	6:30	4:57	3:24	1:51	0:18	-1:55	-3:28	-75:54	114				
115	-77:03	2:39	1:06	-0:26	-1:59	-3:32	-5:05	-6:37	-77:03	115				
116	-78:08	1:54	0:26	-1:06	-2:39	-4:12	-5:45	-7:18	-78:08	116				
117	-79:08	1:16	-0:16	-1:49	-3:22	-4:55	-6:28	-8:01	-79:08	117				
118	-80:02	1:39	-1:12	-2:45	-4:18	-5:51	-7:24	-8:57	-80:02	118				
119	-80:47	2:10	-1:43	-3:16	-4:49	-6:22	-7:55	-9:28	-80:47	119				
120	-81:22	2:46	-2:18	-3:51	-5:24	-6:57	-8:30	-10:03	-81:22	120				
121	-81:44	3:12	-2:44	-4:17	-5:50	-7:23	-8:56	-10:29	-81:44	121				
122	-81:51	4:32	-3:12	-4:45	-6:18	-7:51	-9:24	-10:57	-81:51	122				
123	-81:44	5:43	-3:18	-4:51	-6:24	-7:57	-9:30	-11:03	-81:44	123				
124	-81:22	6:19	-2:51	-4:24	-5:57	-7:30	-9:03	-10:36	-81:22	124				
125	-80:47	7:56	-1:28	-3:01	-4:34	-6:07	-7:40	-9:13	-80:47	125				
126	-80:02	8:12	-0:58	-2:31	-4:04	-5:37	-7:10	-8:43	-80:02	126				
127	-79:08	9:14	-0:16	-1:49	-3:22	-4:55	-6:28	-8:01	-79:08	127				
128	-78:08	9:71	-0:43	-2:16	-3:49	-5:22	-6:55	-8:28	-78:08	128				
129	-77:03	10:14	-1:07	-2:40	-4:13	-5:46	-7:19	-8:52	-77:03	129				
130	-75:54	10:54	-1:07	-2:40	-4:13	-5:46	-7:19	-8:52	-75:54	130				
131	-74:43	10:51	-1:10	-2:43	-4:16	-5:49	-7:22	-8:55	-74:43	131				
132	-73:29	11:41	-1:13	-2:46	-4:19	-5:52	-7:25	-8:58	-73:29	132				
133	-72:11	11:41	-1:13	-2:46	-4:19	-5:52	-7:25	-8:58	-72:11	133				
134	-70:55	11:67	-1:17	-2:50	-4:23	-5:56	-7:29	-9:02	-70:55	134				
135	-69:37	11:81	-1:18	-2:51	-4:24	-5:57	-7:30	-9:03	-69:37	135				
136	-68:17	11:95	-1:19	-2:52	-4:25	-5:58	-7:31	-9:04	-68:17	136				
137	-66:57	12:13	-1:23	-2:56	-4:29	-6:02	-7:35	-9:08	-66:57	137				
138	-65:35	12:14	-1:24	-2:57	-4:30	-6:03	-7:36	-9:09	-65:35	138				
139	-64:14	12:31	-1:23	-2:56	-4:29	-6:02	-7:35	-9:08	-64:14	139				
140	-62:51	12:57	-1:26	-2:59	-4:32	-6:05	-7:38	-9:11	-62:51	140				
141	-61:29	12:60	-1:27	-3:00	-4:33	-6:06	-7:39	-9:12	-61:29	141				
142	-60:06	12:07	-1:28	-3:01	-4:34	-6:07	-7:40	-9:13	-60:06	142				
143	-58:42	12:01	-1:29	-3:02	-4:35	-6:08	-7:41	-9:14	-58:42	143				
144	-57:19	12:50	-1:30	-3:03	-4:36	-6:09	-7:42	-9:15	-57:19	144				
145	-55:55	12:97	-1:31	-3:04	-4:37	-6:10	-7:43	-9:16	-55:55	145				
146	-54:31	13:01	-1:31	-3:04	-4:37	-6:10	-7:43	-9:16	-54:31	146				
147	-53:06	13:10	-1:32	-3:05	-4:38	-6:11	-7:44	-9:17	-53:06	147				

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
148	-51:42	-131:41	-162	-163	-164	-165	-166	-167	-168	-169	-170	-171	-51:42	148
149	-50:17	-132:18	-133:14	-134:17	-135:12	-136:19	-137:52	-138:29	-139:25	-140:10	-140:57	-141:43	-50:17	149
150	-48:52	-132:54	-133:51	-134:26	-135:24	-136:56	-137:52	-138:29	-139:25	-140:10	-140:57	-141:43	-48:52	150
151	-47:27	-133:27	-134:26	-135:00	-136:33	-137:05	-138:38	-139:09	-140:11	-141:11	-142:12	-143:16	-47:27	151
152	-46:02	-134:00	-135:32	-137:05	-137:05	-138:38	-139:09	-140:11	-141:11	-142:12	-143:16	-144:16	-46:02	152
153	-44:37	-134:31	-136:03	-137:36	-138:06	-139:38	-140:10	-141:07	-142:14	-143:12	-144:15	-145:15	-44:37	153
154	-43:11	-135:00	-136:33	-138:06	-138:06	-139:38	-140:10	-141:07	-142:14	-143:12	-144:15	-145:15	-43:11	154
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78108	84122	82149	81117	79144	78111	76138	75106	78108	004				
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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
			169	170	171	172	173	174	175					
050	14:27	38:56	37:24	35:51	34:18	32:46	31:13	29:40	28:10	26:40	25:10	23:40	22:10	050
051	13:01	38:37	37:05	35:32	34:00	32:27	30:54	29:21	27:48	26:15	24:42	23:10	21:37	051
052	11:34	38:18	36:46	35:13	33:40	32:07	30:34	29:01	27:28	25:55	24:22	22:50	21:17	052
053	10:07	37:59	36:27	34:54	33:21	31:48	29:15	27:42	26:10	24:37	23:04	21:31	19:58	053
054	8:41	37:41	36:08	34:35	33:03	31:30	29:57	28:24	26:51	25:18	23:45	22:12	20:39	054
055	7:14	37:22	35:49	34:17	32:44	31:12	29:39	28:06	26:33	25:00	23:27	21:54	20:21	055
056	5:47	37:04	35:31	33:58	32:25	30:52	29:19	27:46	26:13	24:40	23:07	21:34	20:01	056
057	4:20	36:45	35:12	33:40	32:07	30:34	29:01	27:28	25:55	24:22	22:49	21:16	19:43	057
058	2:54	36:27	34:54	33:21	31:48	30:15	28:42	27:09	25:36	24:03	22:30	20:57	19:24	058
059	1:27	36:08	34:35	33:03	31:30	29:57	28:24	26:51	25:18	23:45	22:12	20:39	19:06	059
060	0:00	35:50	34:17	32:44	31:12	29:39	28:06	26:33	25:00	23:27	21:54	20:21	18:48	060
061	-1:27	35:31	33:59	32:26	30:53	29:20	27:47	26:14	24:41	23:08	21:35	20:02	18:29	061
062	-2:54	35:13	33:40	32:08	30:35	29:02	27:29	25:56	24:23	22:50	21:17	19:44	18:11	062
063	-4:20	34:54	33:22	31:49	30:16	28:43	27:10	25:37	24:04	22:31	20:58	19:25	17:52	063
064	-5:47	34:36	33:03	31:31	29:58	28:25	26:52	25:19	23:46	22:13	20:40	19:07	17:34	064
065	-7:14	34:17	32:45	31:12	29:39	28:07	26:34	25:01	23:28	21:55	20:22	18:49	17:16	065
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085	-36:03	27:21	25:49	24:16	22:43	21:11	19:38	18:05	16:32	15:00	13:27	11:54	10:21	085
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091	-44:37	24:37	23:05	21:32	19:59	18:26	16:54	15:21	13:48	12:15	10:42	9:09	7:36	091
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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
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100	-57:19	18257	171	172	173	174	175	176	177	178	179	180	-57:19	100
101	-58:42	18107	172	173	174	175	176	177	178	179	180	181	-58:42	101
102	-60:06	17114	173	174	175	176	177	178	179	180	181	182	-60:06	102
103	-61:29	16116	174	175	176	177	178	179	180	181	182	183	-61:29	103
104	-62:51	15114	175	176	177	178	179	180	181	182	183	184	-62:51	104
105	-64:14	14106	176	177	178	179	180	181	182	183	184	185	-64:14	105
106	-65:35	12152	177	178	179	180	181	182	183	184	185	186	-65:35	106
107	-66:57	11130	178	179	180	181	182	183	184	185	186	187	-66:57	107
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110	-70:55	6124	181	182	183	184	185	186	187	188	189	190	-70:55	110
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112	-73:29	1148	183	184	185	186	187	188	189	190	191	192	-73:29	112
113	-74:43	1102	184	185	186	187	188	189	190	191	192	193	-74:43	113
114	-75:54	4119	185	186	187	188	189	190	191	192	193	194	-75:54	114
115	-77:03	8110	186	187	188	189	190	191	192	193	194	195	-77:03	115
116	-78:08	12142	187	188	189	190	191	192	193	194	195	196	-78:08	116
117	-79:08	18105	188	189	190	191	192	193	194	195	196	197	-79:08	117
118	-80:02	24128	189	190	191	192	193	194	195	196	197	198	-80:02	118
119	-80:47	31157	190	191	192	193	194	195	196	197	198	199	-80:47	119
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121	-81:44	50111	192	193	194	195	196	197	198	199	200	201	-81:44	121
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123	-81:44	70132	194	195	196	197	198	199	200	201	202	203	-81:44	123
124	-81:22	80107	195	196	197	198	199	200	201	202	203	204	-81:22	124
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126	-80:02	96114	197	198	199	200	201	202	203	204	205	206	-80:02	126
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128	-78:08	112132	199	200	201	202	203	204	205	206	207	208	-78:08	128
129	-77:03	116123	200	201	202	203	204	205	206	207	208	209	-77:03	129
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132	-73:29	124157	203	204	205	206	207	208	209	210	211	212	-73:29	132
133	-72:13	127106	204	205	206	207	208	209	210	211	212	213	-72:13	133
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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
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149	-50:17	-143:07	-144:40	-146:13	-147:45	-149:18	-150:51	-152:23	-153:56	-155:28	-157:01	-158:33	-50:17	149
150	-48:52	-143:43	-145:15	-146:48	-148:21	-149:54	-151:26	-152:59	-154:31	-156:04	-157:37	-159:10	-48:52	150
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189	7:14	-158:04	-159:37	-161:10	-162:43	-164:16	-165:49	-167:22	-168:55	-170:28	-171:56	-173:10	7:14	189
190	8:41	-158:23	-159:56	-161:28	-163:01	-164:34	-166:07	-167:40	-169:13	-170:42	-172:10	-173:24	8:41	190
191	10:07	-158:42	-160:14	-161:47	-163:20	-164:53	-166:26	-167:59	-169:32	-170:56	-172:24	-173:38	10:07	191
192	11:34	-159:00	-160:33	-162:06	-163:39	-165:12	-166:45	-168:18	-169:51	-171:24	-172:56	-174:10	11:34	192
193	13:01	-159:19	-160:52	-162:25	-163:58	-165:31	-167:04	-168:37	-169:50	-171:43	-173:16	-174:30	13:01	193
194	14:27	-159:39	-161:11	-162:44	-164:17	-165:50	-167:23	-168:56	-170:29	-172:02	-173:35	-174:49	14:27	194
195	15:54	-159:58	-161:31	-163:03	-164:36	-166:09	-167:41	-169:14	-170:47	-172:20	-173:53	-175:07	15:54	195
196	17:21	-160:17	-161:50	-163:23	-164:55	-166:28	-168:01	-169:34	-171:07	-172:40	-174:13	-175:27	17:21	196

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PATH/ROW TO LATITUDE/LONGITUDE

ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
197	18147	160137	169	170	171	172	173	174	175	176	177	178	18147	197
198	20114	160157	169	170	171	172	173	174	175	176	177	178	20114	198
199	21140	161117	169	170	171	172	173	174	175	176	177	178	21140	199
200	23107	161138	169	170	171	172	173	174	175	176	177	178	23107	200
201	24133	161159	169	170	171	172	173	174	175	176	177	178	24133	201
202	26100	162120	169	170	171	172	173	174	175	176	177	178	26100	202
203	27126	162141	169	170	171	172	173	174	175	176	177	178	27126	203
204	28152	163103	169	170	171	172	173	174	175	176	177	178	28152	204
205	30118	163125	169	170	171	172	173	174	175	176	177	178	30118	205
206	31145	163148	169	170	171	172	173	174	175	176	177	178	31145	206
207	33111	164112	169	170	171	172	173	174	175	176	177	178	33111	207
208	34137	164136	169	170	171	172	173	174	175	176	177	178	34137	208
209	36103	165100	169	170	171	172	173	174	175	176	177	178	36103	209
210	37129	165125	169	170	171	172	173	174	175	176	177	178	37129	210
211	38154	165151	169	170	171	172	173	174	175	176	177	178	38154	211
212	40120	166118	169	170	171	172	173	174	175	176	177	178	40120	212
213	41146	166146	169	170	171	172	173	174	175	176	177	178	41146	213
214	43111	167115	169	170	171	172	173	174	175	176	177	178	43111	214
215	44137	167144	169	170	171	172	173	174	175	176	177	178	44137	215
216	46102	168118	169	170	171	172	173	174	175	176	177	178	46102	216
217	47127	168148	169	170	171	172	173	174	175	176	177	178	47127	217
218	48152	169121	169	170	171	172	173	174	175	176	177	178	48152	218
219	50117	169157	169	170	171	172	173	174	175	176	177	178	50117	219
220	51142	170134	169	170	171	172	173	174	175	176	177	178	51142	220
221	53106	171113	169	170	171	172	173	174	175	176	177	178	53106	221
222	54131	171154	169	170	171	172	173	174	175	176	177	178	54131	222
223	55155	172138	169	170	171	172	173	174	175	176	177	178	55155	223
224	57119	173124	169	170	171	172	173	174	175	176	177	178	57119	224
225	58142	174114	169	170	171	172	173	174	175	176	177	178	58142	225
226	60106	175108	169	170	171	172	173	174	175	176	177	178	60106	226
227	61129	176105	169	170	171	172	173	174	175	176	177	178	61129	227
228	62151	177102	169	170	171	172	173	174	175	176	177	178	62151	228
229	64114	178116	169	170	171	172	173	174	175	176	177	178	64114	229
230	65135	179130	169	170	171	172	173	174	175	176	177	178	65135	230
231	66157	180148	169	170	171	172	173	174	175	176	177	178	66157	231
232	68117	181137	169	170	171	172	173	174	175	176	177	178	68117	232
233	69137	182135	169	170	171	172	173	174	175	176	177	178	69137	233
234	70155	183130	169	170	171	172	173	174	175	176	177	178	70155	234
235	72113	184126	169	170	171	172	173	174	175	176	177	178	72113	235
236	73129	185126	169	170	171	172	173	174	175	176	177	178	73129	236
237	74143	186137	169	170	171	172	173	174	175	176	177	178	74143	237
238	75154	187139	169	170	171	172	173	174	175	176	177	178	75154	238
239	77103	188128	169	170	171	172	173	174	175	176	177	178	77103	239
240	78108	189123	169	170	171	172	173	174	175	176	177	178	78108	240
241	79108	190133	169	170	171	172	173	174	175	176	177	178	79108	241
242	80102	191110	169	170	171	172	173	174	175	176	177	178	80102	242
243	80147	192141	169	170	171	172	173	174	175	176	177	178	80147	243
244	81122	193158	169	170	171	172	173	174	175	176	177	178	81122	244
245	81144	194144	169	170	171	172	173	174	175	176	177	178	81144	245

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			169	170	171	172	173	174	175					
246	81:51		107:17	105:45	104:12	102:39	101:06	99:34	98:01				81:51	246
247	81:44		97:07	95:34	94:01	92:29	90:56	89:23	87:51				81:44	247
248	81:22		87:31	85:58	84:26	82:53	81:20	79:47	78:15				81:22	248

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
---	-----	----	---	---	---	---	---	---	---	---	---	-----	-----	---
001	80:47	92:48	176	177	178	179	180	181	182			80:47	001	
002	80:02	85:18		91:15	89:42	88:10	86:37	85:04	83:32			80:02	002	
003	79:08	78:56		83:46	82:13	80:40	79:08	77:35	76:02			79:08	003	
004	78:08	73:33		77:23	75:51	74:18	72:45	71:12	69:40			78:08	004	
005	77:03	69:01		72:00	70:28	68:55	67:22	65:50	64:17			77:03	005	
006	75:54	65:10		67:28	65:55	64:22	62:50	61:17	59:44			75:54	006	
007	74:43	61:52		63:37	62:04	60:31	58:59	57:26	55:53			74:43	007	
008	73:29	59:03		61:43	59:10	57:30	55:42	54:09	52:36			73:29	008	
009	72:13	56:36		57:30	55:57	54:25	52:52	51:19	49:47			72:13	009	
010	70:55	54:27		55:03	53:30	51:57	50:25	48:52	47:19			70:55	010	
011	69:37	52:33		52:54	51:21	49:49	48:16	46:43	45:10			69:37	011	
012	68:17	50:52		51:00	49:27	47:55	46:22	44:49	43:17			68:17	012	
013	66:57	49:21		49:19	47:46	46:14	44:41	43:08	41:35			66:57	013	
014	65:35	47:59		48:16	46:43	45:10	43:37	41:64	40:05			65:35	014	
015	64:14	46:45		46:26	44:54	43:21	41:48	40:16	38:43			64:14	015	
016	62:51	45:37		45:12	43:39	42:07	40:34	39:01	37:28			62:51	016	
017	61:29	44:34		44:04	42:31	40:59	39:26	37:53	36:21			61:29	017	
018	60:06	43:37		43:02	41:29	39:56	38:24	36:51	35:18			60:06	018	
019	58:42	42:43		42:04	40:31	38:59	37:26	35:53	34:20			58:42	019	
020	57:19	41:53		41:11	39:38	38:05	36:32	35:00	33:27			57:19	020	
021	55:55	41:07		40:21	38:48	37:15	35:43	34:10	32:37			55:55	021	
022	54:31	40:23		39:34	38:01	36:29	34:56	33:23	31:51			54:31	022	
023	53:06	39:42		38:09	36:36	35:04	33:31	31:58	30:25			53:06	023	
024	51:42	38:25		37:30	35:57	34:24	32:52	31:19	29:46			51:42	024	
025	50:17	37:50		36:53	35:20	33:47	32:15	30:42	29:09			50:17	025	
026	48:52	37:16		36:17	34:45	33:12	31:39	30:07	28:34			48:52	026	
027	47:27	36:44		35:44	34:11	32:38	31:06	29:33	28:00			47:27	027	
028	46:02	36:13		35:12	33:39	32:06	30:33	29:01	27:28			46:02	028	
029	44:37	35:44		34:41	33:08	31:35	30:02	28:30	26:57			44:37	029	
030	43:11	35:15		34:11	32:38	31:05	29:33	28:00	26:27			43:11	030	
031	41:46	34:20		33:42	32:09	30:37	29:04	27:31	25:59			41:46	031	
032	40:20	33:54		33:14	31:42	30:10	28:36	27:04	25:31			40:20	032	
033	38:54	33:29		32:48	31:15	29:42	28:10	26:37	25:04			38:54	033	
034	37:29	33:08		32:22	30:49	29:16	27:44	26:11	24:38			37:29	034	
035	36:03	32:41		32:06	30:33	29:00	27:28	25:55	24:22			36:03	035	
036	34:37	32:17		31:38	29:65	28:13	26:40	25:07	23:34			34:37	036	
037	33:11	31:54		31:08	29:35	28:02	26:30	24:57	23:24			33:11	037	
038	31:45	31:32		30:45	29:12	27:39	26:06	24:34	23:01			31:45	038	
039	30:18	31:10		30:22	28:49	27:16	25:44	24:11	22:38			30:18	039	
040	28:52	30:49		30:22	28:49	27:16	25:44	24:11	22:38			28:52	040	
041	27:26	30:27		29:59	28:27	26:54	25:22	23:50	22:17			27:26	041	
042	26:00	30:07		29:37	28:05	26:32	25:00	23:27	21:54			26:00	042	
043	24:33	29:46		29:16	27:43	26:10	24:38	23:05	21:32			24:33	043	
044	23:07	29:26		28:55	27:22	25:49	24:17	22:44	21:11			23:07	044	
045	21:40	29:06		28:34	27:01	25:29	23:56	22:24	20:50			21:40	045	
046	20:14	28:46		28:13	26:41	25:08	23:35	22:02	20:29			20:14	046	
047	18:47	28:26		27:53	26:21	24:48	23:15	21:42	20:10			18:47	047	
048	17:21	28:06		27:33	26:01	24:28	22:55	21:23	19:50			17:21	048	
049	15:54	28:46		27:14	25:41	24:08	22:36	21:03	19:31			15:54	049	

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
			176		177		178		179		180			
050	14:27		28:08	26:35		25:02	23:29	21:57	20:24	18:51	17:18	15:45	14:27	050
051	13:01		27:48	26:16		24:43	23:10	21:38	20:05	18:32	17:00	15:28	13:01	051
052	11:34		27:29	25:57		24:24	22:51	21:19	19:46	18:13	16:40	15:08	11:34	052
053	10:07		27:11	25:39		24:05	22:32	21:00	19:27	17:54	16:21	14:49	10:07	053
054	8:41		26:52	25:19		23:46	22:14	20:41	19:08	17:36	16:04	14:31	8:41	054
055	7:14		26:33	25:00		23:28	21:55	20:22	18:50	17:17	15:45	14:12	7:14	055
056	5:47		26:15	24:42		23:09	21:36	20:04	18:31	16:58	15:26	13:54	5:47	056
057	4:20		25:56	24:23		22:51	21:18	19:45	18:13	16:40	15:08	13:35	4:20	057
058	2:54		25:38	24:05		22:32	21:00	19:27	17:54	16:21	14:49	13:16	2:54	058
059	1:27		25:19	23:47		22:14	20:41	19:08	17:36	16:04	14:31	13:01	1:27	059
060	0:00		25:01	23:28		21:55	20:22	18:50	17:17	15:45	14:12	12:38	0:00	060
061	-1:27		24:42	23:10		21:37	20:04	18:32	16:59	15:26	13:54	12:19	-1:27	061
062	-2:54		24:24	22:51		21:19	19:46	18:13	16:40	15:08	13:35	11:59	-2:54	062
063	-4:20		24:06	22:33		21:00	19:27	17:54	16:21	14:49	13:16	11:39	-4:20	063
064	-5:47		23:47	22:14		20:42	19:09	17:36	16:04	14:31	13:01	11:19	-5:47	064
065	-7:14		23:28	21:55		20:23	18:50	17:18	15:45	14:12	12:38	10:59	-7:14	065
066	-8:41		23:10	21:37		20:04	18:32	16:59	15:26	13:54	12:19	10:39	-8:41	066
067	-10:07		22:51	21:18		19:46	18:13	16:40	15:08	13:35	11:59	10:19	-10:07	067
068	-11:34		22:32	21:00		19:27	17:54	16:21	14:49	13:16	11:39	9:38	-11:34	068
069	-13:01		22:13	20:41		19:08	17:35	16:02	14:30	13:01	11:39	9:13	-13:01	069
070	-14:27		21:54	20:21		18:49	17:16	15:43	14:11	12:38	11:08	8:51	-14:27	070
071	-15:54		21:35	20:02		18:29	16:57	15:24	13:52	12:19	10:46	8:28	-15:54	071
072	-17:21		21:15	19:43		18:10	16:37	15:05	13:32	11:59	10:24	8:05	-17:21	072
073	-18:47		20:56	19:23		17:50	16:17	14:45	13:12	11:39	10:07	7:41	-18:47	073
074	-20:14		20:36	19:03		17:30	15:58	14:25	12:52	11:19	9:49	7:16	-20:14	074
075	-21:40		20:15	18:43		17:10	15:37	14:05	12:32	10:59	9:27	6:51	-21:40	075
076	-23:07		19:55	18:22		16:50	15:17	13:44	12:11	10:39	9:07	6:25	-23:07	076
077	-24:33		19:34	18:01		16:29	14:56	13:23	11:51	10:18	8:46	6:04	-24:33	077
078	-26:00		19:13	17:40		16:08	14:35	13:02	11:30	9:57	8:25	5:43	-26:00	078
079	-27:26		18:52	17:19		15:46	14:13	12:41	11:08	9:35	8:03	5:21	-27:26	079
080	-28:52		18:30	16:57		15:24	13:52	12:19	10:46	9:13	7:41	5:00	-28:52	080
081	-30:18		18:07	16:35		15:02	13:29	11:56	10:24	8:51	7:18	4:36	-30:18	081
082	-31:45		17:44	16:12		14:39	13:06	11:34	10:01	8:28	6:55	4:12	-31:45	082
083	-33:11		17:21	15:48		14:16	12:43	11:10	9:38	8:05	6:32	3:50	-33:11	083
084	-34:37		16:57	15:24		13:52	12:19	10:46	9:14	7:41	6:08	3:26	-34:37	084
085	-36:03		16:33	15:00		13:27	11:54	10:22	8:49	7:16	5:43	3:04	-36:03	085
086	-37:29		16:07	14:35		13:02	11:29	9:57	8:24	6:51	5:18	2:40	-37:29	086
087	-38:54		15:41	14:09		12:36	11:03	9:31	7:58	6:25	4:52	2:10	-38:54	087
088	-40:20		15:15	13:42		12:09	10:36	9:04	7:31	5:58	4:25	1:43	-40:20	088
089	-41:46		14:47	13:14		11:41	10:09	8:36	7:03	5:31	4:00	1:17	-41:46	089
090	-43:11		14:18	12:45		11:13	9:40	8:07	6:34	5:02	3:29	0:47	-43:11	090
091	-44:37		13:48	12:16		10:43	9:10	7:38	6:05	4:32	3:00	0:18	-44:37	091
092	-46:02		13:17	11:45		10:12	8:39	7:07	5:34	4:01	2:28	-0:07	-46:02	092
093	-47:27		12:45	11:12		9:40	8:07	6:34	5:02	3:29	1:55	-1:32	-47:27	093
094	-48:52		12:11	10:39		9:06	7:33	6:01	4:28	2:55	1:22	-2:57	-48:52	094
095	-50:17		11:36	10:03		8:31	6:58	5:25	3:53	2:20	0:49	-3:22	-50:17	095
096	-51:42		10:59	9:26		7:54	6:21	4:48	3:16	1:43	0:10	-3:47	-51:42	096
097	-53:06		10:20	8:47		7:15	5:42	4:09	2:36	1:04	-0:29	-4:02	-53:06	097
098	-54:31		9:39	8:06		6:33	5:01	3:28	1:55	0:22	-0:53	-4:27	-54:31	098

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			176	177		178	179		180	181	182			
099	-55:55		8:55	7:22	6:36	5:49	4:17		2:44	1:11		0:21	-55:55	099
100	-57:19		8:08	6:36	5:46	5:03	3:30		1:57	0:25		1:08	-57:19	100
101	-58:42		7:18	5:46	4:13	2:40	2:40		1:08	0:25		1:58	-58:42	101
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103	-61:29		5:27	3:55	2:22	0:49	0:49		0:14	0:19		3:49	-61:29	103
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NAL AERONAUTICS SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
LANDSAT MISSION MANAGEMENT FACILITY

REPORT : RF130900
SUBSYSTEM : RS&S

PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
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PATH/ROW TO LATITUDE/LONGITUDE
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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
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235	72:13	-186:22	-187:43	-188:30	-190:23	-191:25	-194:13	-194:13	-194:13	-194:13	-194:13	194:13	72:13	235
236	73:29	-186:45	-188:06	-188:53	-190:46	-191:48	-194:36	-194:36	-194:36	-194:36	-194:36	194:36	73:29	236
237	74:43	-187:08	-188:29	-189:16	-191:09	-192:11	-194:59	-194:59	-194:59	-194:59	-194:59	194:59	74:43	237
238	75:54	-187:31	-188:52	-189:39	-191:32	-192:34	-195:22	-195:22	-195:22	-195:22	-195:22	195:22	75:54	238
239	77:03	-187:54	-189:15	-190:02	-191:55	-192:57	-195:45	-195:45	-195:45	-195:45	-195:45	195:45	77:03	239
240	78:08	-188:18	-189:39	-190:26	-192:18	-193:20	-196:08	-196:08	-196:08	-196:08	-196:08	196:08	78:08	240
241	79:08	-188:42	-189:63	-190:50	-192:41	-193:43	-196:31	-196:31	-196:31	-196:31	-196:31	196:31	79:08	241
242	80:02	-189:06	-190:27	-191:14	-193:06	-194:08	-196:54	-196:54	-196:54	-196:54	-196:54	196:54	80:02	242
243	80:47	-189:30	-190:51	-191:38	-193:30	-194:32	-197:17	-197:17	-197:17	-197:17	-197:17	197:17	80:47	243
244	81:22	-189:54	-191:15	-192:02	-193:54	-194:56	-197:41	-197:41	-197:41	-197:41	-197:41	197:41	81:22	244
245	81:44	-190:18	-191:39	-192:26	-194:18	-195:20	-198:05	-198:05	-198:05	-198:05	-198:05	198:05	81:44	245

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ROW	LATITUDE	PATH	L	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
		176	177	178	179	180	181	182					
246	81:51	96:28	94:56	93:23	91:50	90:18	88:45	87:12				81:51	246
247	81:44	86:18	84:45	83:13	81:40	80:07	78:34	77:02				81:44	247
248	81:22	76:42	75:09	73:37	72:04	70:31	68:58	67:26				81:22	248

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	ESTIMATES)	LATITUDE	ROW
---	-----	----	---	---	---	---	---	---	---	---	---	-----	-----	---
001	80147	81159	183	184	185	186	187	188	189	190	191	74135	80147	001
002	80102	74130	81159	80126	78153	77121	75148	66146	65113	64124	63129	62124	80102	002
003	79108	68107	74130	72157	71124	69151	68119	66146	65113	64124	63129	62124	79108	003
004	78108	62144	68107	66134	65102	63129	61156	58108	56133	55101	53128	52101	78108	004
005	77103	58112	62144	61111	59139	58108	56133	55106	54133	53133	52101	50128	77103	005
006	75154	54121	58112	56139	55106	53133	52101	50128	48130	47143	46137	45104	75154	006
007	74143	51103	54121	52148	51115	49142	48110	46125	44153	43120	41147	39136	74143	007
008	73129	48114	51103	49131	47158	46125	44153	43120	41147	39136	38103	36130	73129	008
009	72113	45147	48114	46141	45108	43136	42103	40130	38103	36130	34121	32128	72113	009
010	70155	43138	45147	44114	42141	41108	39136	38103	36130	34121	32128	30146	70155	010
011	69137	41144	43138	42105	40132	38109	37106	35133	34100	32128	30146	28116	69137	011
012	68117	40103	41144	40130	38139	37106	35125	33152	32121	30148	28116	26140	68117	012
013	66157	38132	40103	38159	36157	35127	33154	32121	30148	28127	26140	24129	66157	013
014	65135	37110	38132	36159	34105	32150	30118	28145	26126	24154	22132	20118	65135	014
015	64114	35156	37110	35123	32150	30118	28145	26126	24154	22132	20118	18157	64114	015
016	62151	34148	35156	34123	31142	29107	27116	25143	23123	21151	19136	17145	62151	016
017	61129	33145	34148	33115	30140	28116	26126	24154	22132	20118	18157	16138	61129	017
018	60106	32148	33145	32113	29142	27116	25143	23123	21151	19136	17145	15138	60106	018
019	58142	31154	32148	31120	28145	26126	24154	22132	20118	18157	16138	14142	58142	019
020	55155	30118	31154	29132	27116	25143	23123	21151	19136	17145	15138	13124	55155	020
021	54131	29134	30118	28101	25109	23156	21149	19144	18115	16142	14142	12159	54131	021
022	53106	28153	29134	27120	25109	23156	21149	19144	18115	16142	14142	12159	53106	022
023	51142	27137	28153	26141	24155	22150	20146	18144	16142	14142	12159	10122	51142	023
024	50117	26128	27137	25109	23156	21149	19144	18115	16142	14142	12159	10122	50117	024
025	48152	25155	26128	24155	22150	20146	18144	16142	14142	12159	10122	8141	48152	025
026	47127	24126	25155	23152	21149	19144	18115	16142	14142	12159	10122	8141	47127	026
027	46102	23158	24126	22153	20146	18144	16142	14142	12159	10122	8141	6129	46102	027
028	44137	22140	23158	21149	19144	18115	16142	14142	12159	10122	8141	6129	44137	028
029	43111	21152	22140	20146	18144	16142	14142	12159	10122	8141	6129	6129	43111	029
030	41146	20143	21152	19156	18146	17114	16150	15117	14155	13122	11127	9121	41146	030
031	40120	19139	20143	18127	17145	16142	15117	14155	13122	11127	9121	9121	40120	031
032	38154	18157	19139	17145	16142	15117	14155	13122	11127	9121	9121	9121	38154	032
033	37129	17125	18157	17145	16142	15117	14155	13122	11127	9121	9121	9121	37129	033
034	36103	16144	18157	17145	16142	15117	14155	13122	11127	9121	9121	9121	36103	034
035	34137	15154	17125	16144	15117	14155	13122	11127	9121	9121	9121	9121	34137	035
036	33111	14142	16144	15117	14155	13122	11127	9121	9121	9121	9121	9121	33111	036
037	31145	13124	15117	14155	13122	11127	9121	9121	9121	9121	9121	9121	31145	037
038	30118	12159	14155	13122	11127	9121	9121	9121	9121	9121	9121	9121	30118	038
039	28152	11127	13122	11127	9121	9121	9121	9121	9121	9121	9121	9121	28152	039
040	27126	10122	12159	11127	9121	9121	9121	9121	9121	9121	9121	9121	27126	040
041	26100	9121	11127	10122	9121	9121	9121	9121	9121	9121	9121	9121	26100	041
042	24133	8141	10122	9121	9121	9121	9121	9121	9121	9121	9121	9121	24133	042
043	23107	7145	9121	8141	7145	6129	5104	4079	3054	2029	1004	8141	23107	043
044	21140	6129	8141	7145	6129	5104	4079	3054	2029	1004	8141	6129	21140	044
045	20114	5104	7145	6129	5104	4079	3054	2029	1004	8141	6129	5104	20114	045
046	18147	4079	6129	5104	4079	3054	2029	1004	8141	6129	5104	4079	18147	046
047	17121	3054	5104	4079	3054	2029	1004	8141	6129	5104	4079	3054	17121	047
048	15154	2029	4079	3054	2029	1004	8141	6129	5104	4079	3054	2029	15154	048
049		1004	3054	2029	1004	8141	6129	5104	4079	3054	2029	1004		049

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ROW	LATITUDE	PATH:	183	L	C	N	G	I	T	U	D	E	(DEGREES/MINUTES)	188	189	LATITUDE	ROW
050	14127		17119	15146		14113		12140		11108		9135		8102		14127	050
051	13101		16159	15127		13154		12121		10149		9116		7143		13101	051
052	11134		16140	15108		13135		12102		10130		8157		7124		11134	052
053	10107		16122	14149		13116		11144		10111		8138		7105		10107	053
054	8141		16103	14130		12157		11125		9152		8119		6147		8141	054
055	7114		15144	14112		12139		11106		9133		8101		6128		7114	055
056	5147		15126	13153		12120		10148		9115		7142		6109		5147	056
057	4120		15107	13134		12102		10129		8156		7124		5151		4120	057
058	2154		14149	13116		11143		10111		8138		7105		5133		2154	058
059	0100		14130	12158		11125		9152		8119		6147		5114		0100	059
060	0100		14112	12139		11106		9133		8101		6128		4156		0100	060
061	-1127		13153	12121		10148		9115		7143		6110		4137		-1127	061
062	-2154		13135	12102		10130		8157		7124		5151		4119		-2154	062
063	-4120		13117	11144		10111		8139		7106		5133		4100		-4120	063
064	-5147		12158	11125		9153		8120		6147		5115		3142		-5147	064
065	-7114		12140	11107		9134		8101		6129		4156		3123		-7114	065
066	-8141		12121	10148		8116		7143		6110		4137		3105		-8141	066
067	-10107		12102	10129		8157		7124		5151		4119		2146		-10107	067
068	-11134		11143	10111		8138		7105		5133		4100		2127		-11134	068
069	-13101		11124	9152		8119		6146		5114		3141		2108		-13101	069
070	-14127		11105	9132		8100		6127		4154		3122		1149		-14127	070
071	-15154		10146	9113		7140		6108		4135		3102		1130		-15154	071
072	-17121		10126	8154		7121		5148		4116		2143		1110		-17121	072
073	-18147		10107	8134		7101		5129		3156		2123		0150		-18147	073
074	-20114		9147	8114		6141		5109		3136		2103		0131		-20114	074
075	-21140		9127	7154		6121		4148		3116		1143		0110		-21140	075
076	-23107		9106	7133		6101		4128		2155		1123		0110		-23107	076
077	-24133		8145	7113		5140		4107		2134		1102		0131		-24133	077
078	-26100		8124	6151		5119		3146		2113		0141		0152		-26100	078
079	-27126		8103	6130		4157		3125		1152		0119		0136		-27126	079
080	-28152		7141	6108		4135		3103		1130		0103		0158		-28152	080
081	-30118		7118	5146		4113		2140		1108		0125		0145		-30118	081
082	-31145		6156	5123		3150		2117		0145		0148		0148		-31145	082
083	-33111		6132	4159		3127		1154		0121		1111		2144		-33111	083
084	-34137		6108	4135		3103		1130		0103		1135		3108		-34137	084
085	-36103		5144	4111		2138		1106		0127		2100		3133		-36103	085
086	-37129		5118	3146		2113		0140		0152		2125		4124		-37129	086
087	-38154		4152	3120		1147		0114		1118		2151		4151		-38154	087
088	-40120		4126	2153		1120		0113		1145		3118		4120		-40120	088
089	-41146		3158	2125		0152		0140		2113		3146		5118		-41146	089
090	-43111		3129	1157		0106		1109		2142		4114		5147		-43111	090
091	-44137		2159	1139		0137		1139		3111		4144		6117		-44137	091
092	-46102		2129	0156		0137		2110		3142		5115		6148		-46102	092
093	-47127		1156	0124		1109		2142		4118		5147		7120		-47127	093
094	-48152		1123	0110		1143		3116		4148		6121		7154		-48152	094
095	-50117		0147	0145		2118		3151		5124		6156		8129		-50117	095
096	-51142		0110	1123		2155		4128		6101		7133		9106		-51142	096
097	-53106		0129	2102		3134		5107		6140		8112		9145		-53106	097
098	-54131		1110	2143		4116		5148		7121		8154		10126		-54131	098

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ROW	LATITUDE	PATH:	L	U	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
			183	184	185	186	187	188	189					
099	-55:55	-	1:54	-	3:27	-	4:59	-	6:32	-	8:05	-	9:38	-55:55
100	-57:19	-	2:41	-	4:13	-	5:46	-	7:19	-	8:51	-	10:24	-57:19
101	-58:42	-	3:31	-	5:03	-	6:36	-	8:09	-	9:41	-	11:14	-58:42
102	-60:06	-	4:24	-	5:57	-	7:29	-	9:02	-	10:35	-	12:07	-60:06
103	-61:29	-	5:12	-	6:54	-	8:27	-	10:00	-	11:32	-	13:05	-61:29
104	-62:51	-	6:24	-	7:57	-	9:29	-	11:02	-	12:35	-	14:08	-62:51
105	-64:14	-	7:32	-	9:05	-	10:37	-	12:10	-	13:43	-	15:15	-64:14
106	-65:35	-	8:46	-	10:19	-	11:52	-	13:24	-	14:57	-	16:30	-65:35
107	-66:57	-	10:08	-	11:41	-	13:14	-	14:46	-	16:19	-	17:52	-66:57
108	-68:17	-	11:39	-	13:12	-	14:44	-	16:17	-	17:50	-	19:22	-68:17
109	-69:37	-	13:20	-	14:53	-	16:26	-	17:58	-	19:31	-	21:04	-69:37
110	-70:55	-	15:14	-	16:47	-	18:19	-	19:52	-	21:25	-	22:57	-70:55
111	-72:13	-	17:23	-	18:56	-	20:28	-	22:01	-	23:34	-	25:06	-72:13
112	-73:29	-	19:50	-	21:23	-	22:55	-	24:28	-	26:01	-	27:34	-73:29
113	-74:43	-	22:40	-	24:12	-	25:45	-	27:18	-	28:50	-	30:23	-74:43
114	-75:54	-	25:57	-	27:30	-	29:02	-	30:35	-	32:08	-	33:40	-75:54
115	-77:03	-	29:48	-	31:20	-	32:53	-	34:26	-	35:59	-	37:31	-77:03
116	-78:08	-	34:20	-	35:53	-	37:26	-	38:58	-	40:31	-	42:04	-78:08
117	-79:08	-	39:43	-	41:16	-	42:49	-	44:21	-	45:54	-	47:27	-79:08
118	-80:02	-	45:06	-	47:38	-	49:11	-	50:44	-	52:17	-	53:49	-80:02
119	-81:47	-	51:35	-	53:35	-	55:08	-	56:40	-	58:13	-	59:46	-81:47
120	-83:22	-	58:13	-	63:45	-	65:18	-	66:51	-	68:23	-	69:56	-83:22
121	-84:44	-	71:48	-	73:21	-	74:54	-	76:27	-	77:59	-	79:32	-84:44
122	-86:15	-	81:59	-	83:32	-	85:04	-	86:37	-	88:10	-	89:42	-86:15
123	-87:44	-	92:09	-	93:42	-	95:15	-	96:47	-	98:20	-	99:53	-87:44
124	-89:22	-	101:45	-	103:18	-	104:51	-	106:23	-	107:56	-	109:29	-89:22
125	-90:47	-	110:23	-	111:55	-	113:28	-	115:01	-	116:34	-	118:06	-90:47
126	-92:02	-	117:52	-	119:25	-	120:58	-	122:30	-	124:03	-	125:36	-92:02
127	-93:08	-	124:15	-	125:47	-	127:20	-	128:53	-	130:25	-	131:58	-93:08
128	-94:43	-	129:38	-	131:10	-	132:43	-	134:16	-	135:48	-	137:21	-94:43
129	-95:54	-	134:10	-	135:43	-	137:15	-	138:48	-	140:21	-	141:54	-95:54
130	-97:13	-	138:01	-	139:34	-	141:06	-	142:39	-	144:12	-	145:45	-97:13
131	-98:43	-	141:18	-	142:51	-	144:24	-	145:56	-	147:29	-	149:02	-98:43
132	-99:55	-	144:08	-	145:40	-	147:13	-	148:46	-	150:19	-	151:51	-99:55
133	-101:13	-	146:35	-	148:08	-	149:40	-	151:13	-	152:46	-	154:19	-101:13
134	-102:55	-	148:44	-	150:17	-	151:49	-	153:22	-	154:55	-	156:27	-102:55
135	-104:17	-	150:38	-	152:10	-	153:43	-	155:16	-	156:49	-	158:21	-104:17
136	-105:35	-	152:19	-	153:52	-	155:24	-	156:57	-	158:30	-	160:02	-105:35
137	-106:57	-	153:50	-	155:22	-	156:55	-	158:28	-	160:00	-	161:33	-106:57
138	-108:14	-	155:12	-	156:44	-	158:17	-	159:50	-	161:22	-	162:55	-108:14
139	-109:37	-	156:26	-	157:59	-	159:31	-	161:04	-	162:37	-	164:09	-109:37
140	-110:55	-	157:34	-	159:07	-	160:39	-	162:12	-	163:45	-	165:17	-110:55
141	-112:19	-	158:36	-	160:09	-	161:42	-	163:14	-	164:47	-	166:20	-112:19
142	-113:42	-	159:34	-	161:07	-	162:39	-	164:12	-	165:45	-	167:17	-113:42
143	-114:54	-	160:27	-	162:00	-	163:33	-	165:05	-	166:38	-	168:11	-114:54
144	-116:17	-	161:17	-	162:50	-	164:23	-	165:55	-	167:28	-	169:01	-116:17
145	-117:40	-	162:04	-	163:37	-	165:09	-	166:42	-	168:15	-	169:47	-117:40
146	-118:58	-	162:48	-	164:20	-	165:53	-	167:26	-	168:58	-	170:31	-118:58
147	-120:06	-	163:20	-	165:02	-	166:34	-	168:07	-	169:40	-	171:12	-120:06

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149	-50:17	-164:45	-166:18	-167:50	-169:23	-170:56	-172:29	-174:01	-175:34	-177:07	-178:40	-180:13	-50:17	149
150	-48:52	-165:20	-166:53	-168:26	-169:59	-171:32	-173:05	-174:38	-176:11	-177:44	-179:17	-180:50	-48:52	150
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152	-46:02	-166:26	-167:59	-169:32	-171:04	-172:37	-174:10	-175:43	-177:16	-178:49	-180:22	-181:55	-46:02	152
153	-44:37	-166:57	-168:30	-169:59	-171:32	-173:05	-174:38	-176:11	-177:44	-179:17	-180:50	-182:23	-44:37	153
154	-43:11	-167:27	-169:00	-170:32	-172:05	-173:38	-175:10	-176:43	-178:16	-179:49	-181:22	-182:55	-43:11	154
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ROW	LATITUDE	PMH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
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198	20:14	177:25	175:52	174:20	172:47	171:14	169:42	168:10	166:38	165:06	163:34	162:02	160:29	198
199	21:40	177:05	175:32	174:00	172:27	170:54	169:22	167:50	166:18	164:46	163:14	161:42	159:51	199
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201	24:33	176:24	174:51	173:18	171:46	170:13	168:40	167:07	165:35	164:02	162:29	160:56	159:23	201
202	26:00	176:02	174:30	172:57	171:24	169:52	168:19	166:46	165:13	163:40	162:07	160:34	159:01	202
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247	81:44	75:29	84:07	82:34	81:01	79:29	77:56	76:23					81:44	247
248	81:22	65:53	73:56	72:24	70:51	69:18	67:45	66:13					81:22	248
			64:20	62:48	61:15	59:42	58:10	56:37						

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
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002	80102		63141	62108	60135	59102	57130	55157	54124				80102	002
003	79108		51118	50145	48150	47117	45144	43135	41102				79108	003
004	78108		51155	50122	48150	47117	45144	43135	41102				78108	004
005	77103		47123	45150	44117	42145	41112	39139	38106				77103	005
006	75154		43132	41159	40126	38154	37121	35148	34115				75154	006
007	74143		40115	38142	37109	35136	34104	32131	30158				74143	007
008	73129		37125	35152	34120	32147	31114	29141	28109				73129	008
009	72113		34158	33125	31152	30120	28147	27114	25141				72113	009
010	70155		32149	31116	29143	28111	26138	25105	23133				70155	010
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012	68117		29114	27141	26108	24136	23103	21130	19158				68117	012
013	66157		27143	26110	24138	23105	21132	20100	18127				66157	013
014	65135		26121	24148	23116	21143	20110	18138	17105				65135	014
015	64114		25107	23134	22101	20129	18156	17123	15151				64114	015
016	62151		23159	22126	20153	19121	17148	16115	14143				62151	016
017	61129		22156	21124	19151	18119	16146	15113	13140				61129	017
018	60106		21159	20126	18153	17121	15148	14115	12143				60106	018
019	58142		21105	19133	18100	16127	14155	13122	11149				58142	019
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021	55155		19129	17156	16123	14151	13118	11145	10113				55155	021
022	54131		18145	17112	15140	14107	12134	11102	9129				54131	022
023	53106		18104	16131	14158	13126	11153	10120	8148				53106	023
024	51142		17125	15152	14119	12147	11114	9141	8108				51142	024
025	50117		16148	15115	13142	12110	10137	9104	7131				50117	025
026	48152		16112	14140	13107	11134	10101	8128	6156				48152	026
027	47127		15139	14106	12131	11101	9128	7155	5180				47127	027
028	46102		15106	13134	12101	10128	8156	6122	4149				46102	028
029	44137		14135	13103	11130	9157	7125	5150	3177				44137	029
030	43111		14106	12133	11100	9128	7155	5126	3153				43111	030
031	41146		13137	12104	10132	8159	6126	4153	2180				41146	031
032	40120		13109	11137	10104	8131	6158	4126	2153				40120	032
033	38154		12142	11110	9137	8104	6132	4159	2126				38154	033
034	37123		12116	10144	9111	7138	6106	4133	2100				37123	034
035	36103		11151	10119	8146	7113	5140	4108	2133				36103	035
036	34137		11127	9154	8121	6143	5116	3143	2110				34137	036
037	33111		11103	9130	7157	6125	4152	2156	1147				33111	037
038	30118		10139	9107	7134	6101	4129	2156	1123				30118	038
039	28152		10117	8144	7111	5116	4106	2133	1100				28152	039
040	27126		9154	8121	6149	5116	3143	2156	1123				27126	040
041	26100		9132	8100	6127	4154	3121	1149	016				26100	041
042	24133		9111	7138	6105	4133	3100	1127	015				24133	042
043	23107		8150	7117	5144	4112	2139	1106	017				23107	043
044	21140		8129	6156	5123	3151	2118	0145	018				21140	044
045	20114		8108	6115	5103	3130	1137	0105	0128				20114	045
046	18147		7148	6115	5155	4123	1117	0115	0148				18147	046
047	17121		7108	5136	4103	2130	0158	0135	0168				17121	047
048	15154		6149	5116	3144	2111	0138	0155	0127				15154	048
049														049

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
050	14:27		190	191	192	193	194	195	196				14:27	050
051	13:01		6:130	4:157	3:224	1:152	0:119	-	-	-	-	1:114	13:01	051
052	11:34		5:152	4:119	2:466	1:132	0:119	-	-	-	-	1:132	11:34	052
053	10:07		5:133	4:100	2:227	0:155	0:138	-	-	-	-	1:152	10:07	053
054	8:41		5:114	3:41	2:109	0:17	0:157	-	-	-	-	1:111	8:41	054
055	7:14		4:155	3:23	1:50	0:17	1:15	-	-	-	-	1:115	7:14	055
056	5:47		4:137	3:04	1:31	0:01	1:134	-	-	-	-	1:134	5:47	056
057	4:20		4:118	2:46	1:13	0:20	1:153	-	-	-	-	1:134	4:20	057
058	2:54		4:100	2:27	0:54	0:38	2:11	-	-	-	-	1:111	2:54	058
059	1:27		3:41	2:09	0:36	0:57	2:29	-	-	-	-	1:135	1:27	059
060	0:00		3:23	1:50	0:18	1:15	2:48	-	-	-	-	1:153	0:00	060
061	-1:27		3:05	1:32	0:01	1:34	3:06	-	-	-	-	1:127	-1:27	061
062	-2:54		2:46	1:13	0:19	1:52	3:25	-	-	-	-	1:130	-2:54	062
063	-4:20		2:28	0:55	0:38	2:10	3:43	-	-	-	-	1:149	-4:20	063
064	-5:47		2:09	0:36	0:56	2:29	4:02	-	-	-	-	1:107	-5:47	064
065	-7:14		1:51	0:18	1:15	2:47	4:20	-	-	-	-	1:126	-7:14	065
066	-8:41		1:32	0:01	1:33	3:06	4:39	-	-	-	-	1:144	-8:41	066
067	-10:07		1:13	0:19	1:52	3:25	4:58	-	-	-	-	1:130	-10:07	067
068	-11:34		0:54	0:38	2:11	3:44	5:16	-	-	-	-	1:122	-11:34	068
069	-13:01		0:35	0:57	2:30	4:03	5:35	-	-	-	-	1:108	-13:01	069
070	-14:27		0:16	1:16	2:39	4:22	6:55	-	-	-	-	1:127	-14:27	070
071	-15:54		0:03	1:36	3:08	4:41	7:47	-	-	-	-	1:147	-15:54	071
072	-17:21		0:23	1:55	3:28	5:01	8:33	-	-	-	-	1:139	-17:21	072
073	-18:47		0:42	2:15	3:48	5:20	9:13	-	-	-	-	1:158	-18:47	073
074	-20:14		1:02	2:35	4:08	5:40	9:46	-	-	-	-	1:139	-20:14	074
075	-21:40		1:22	2:55	4:28	6:00	10:13	-	-	-	-	1:159	-21:40	075
076	-23:07		1:43	3:16	4:48	6:21	10:41	-	-	-	-	1:182	-23:07	076
077	-24:33		2:04	3:36	5:09	6:42	11:14	-	-	-	-	1:200	-24:33	077
078	-26:00		2:25	3:58	5:30	7:03	11:47	-	-	-	-	1:224	-26:00	078
079	-27:26		2:46	4:19	5:52	7:24	12:20	-	-	-	-	1:247	-27:26	079
080	-28:52		3:08	4:41	6:14	7:46	12:47	-	-	-	-	1:270	-28:52	080
081	-30:18		3:31	5:03	6:36	8:09	13:14	-	-	-	-	1:293	-30:18	081
082	-31:45		3:53	5:26	6:59	8:32	13:41	-	-	-	-	1:316	-31:45	082
083	-33:11		4:17	5:49	7:22	8:55	14:04	-	-	-	-	1:339	-33:11	083
084	-34:37		4:41	6:13	7:46	9:19	14:27	-	-	-	-	1:362	-34:37	084
085	-36:03		5:05	6:38	8:11	9:43	14:50	-	-	-	-	1:385	-36:03	085
086	-37:29		5:31	7:03	8:36	10:09	15:13	-	-	-	-	1:408	-37:29	086
087	-38:54		5:57	7:29	9:02	10:35	15:36	-	-	-	-	1:431	-38:54	087
088	-40:20		6:23	7:56	9:29	11:01	15:59	-	-	-	-	1:454	-40:20	088
089	-41:46		6:51	8:24	9:56	11:28	16:22	-	-	-	-	1:477	-41:46	089
090	-43:11		7:20	8:52	10:25	11:58	16:45	-	-	-	-	1:500	-43:11	090
091	-44:37		7:49	9:22	10:53	12:31	17:08	-	-	-	-	1:523	-44:37	091
092	-46:02		8:20	9:53	11:26	13:04	17:31	-	-	-	-	1:546	-46:02	092
093	-47:27		8:53	10:25	11:58	13:31	17:54	-	-	-	-	1:569	-47:27	093
094	-48:52		9:26	10:59	12:32	14:04	18:17	-	-	-	-	1:592	-48:52	094
095	-50:17		10:02	11:34	13:07	14:37	18:40	-	-	-	-	1:615	-50:17	095
096	-51:42		10:39	12:11	13:44	15:17	19:03	-	-	-	-	1:638	-51:42	096
097	-53:06		11:18	12:51	14:23	15:56	19:26	-	-	-	-	1:661	-53:06	097
098	-54:31		11:59	13:32	15:05	16:37	19:49	-	-	-	-	1:684	-54:31	098

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ROW	PATH/ROW TO LATITUDE/LONGITUDE FOR ADJACENT PATHS ON EARTH										LATITUDE	ROW
	190	191	192	193	194	195	196					
099	12:43	14:16	15:48	17:21	18:54	20:26	21:59	-	33:55	099		
100	13:30	15:02	16:35	18:08	19:40	21:13	22:46	-	57:19	100		
101	14:19	15:52	17:25	18:58	20:30	22:03	23:36	-	58:42	101		
102	15:13	16:46	18:18	19:51	21:24	22:56	24:29	-	60:06	102		
103	16:11	17:43	19:16	20:49	22:21	23:54	25:27	-	61:29	103		
104	17:13	18:46	20:18	21:51	23:24	24:56	26:29	-	62:51	104		
105	18:21	19:54	21:26	22:59	24:32	26:04	27:37	-	64:14	105		
106	19:35	21:08	22:41	24:13	25:46	27:19	28:51	-	65:35	106		
107	20:57	22:30	24:03	25:35	27:08	28:40	30:13	-	66:57	107		
108	22:28	24:01	25:33	27:06	28:39	30:11	31:44	-	68:17	108		
109	24:09	25:42	27:14	28:47	30:20	31:53	33:26	-	69:37	109		
110	26:03	27:36	29:09	30:41	32:14	33:47	35:19	-	70:55	110		
111	28:12	29:44	31:17	32:50	34:23	35:55	37:28	-	72:13	111		
112	30:39	32:12	33:44	35:17	36:50	38:22	39:55	-	73:29	112		
113	33:29	35:01	36:34	38:07	39:39	41:12	42:45	-	74:43	113		
114	36:46	38:18	39:51	41:24	42:57	44:29	46:02	-	75:54	114		
115	40:37	42:09	43:42	45:15	46:48	48:20	49:53	-	77:03	115		
116	45:09	46:42	48:15	49:48	51:20	52:53	54:25	-	78:08	116		
117	50:32	52:05	53:38	55:11	56:43	58:16	59:48	-	79:08	117		
118	56:55	58:27	60:00	61:33	63:05	64:38	66:11	-	80:02	118		
119	64:24	65:57	67:30	69:03	70:35	72:08	73:40	-	80:47	119		
120	73:01	74:34	76:07	77:40	79:12	80:45	82:18	-	81:22	120		
121	82:37	84:10	85:43	87:16	88:48	90:21	91:54	-	81:44	121		
122	92:48	94:21	95:53	97:26	98:59	100:31	102:04	-	81:51	122		
123	102:58	104:31	106:04	107:36	109:09	110:42	112:15	-	81:44	123		
124	112:34	114:07	115:40	117:12	118:45	120:18	121:50	-	81:22	124		
125	122:12	123:44	125:17	126:50	128:22	129:55	131:28	-	80:47	125		
126	128:41	130:14	131:46	133:19	134:52	136:25	137:57	-	80:02	126		
127	135:04	136:36	138:09	139:42	141:14	142:47	144:19	-	79:08	127		
128	140:26	141:59	143:32	145:05	146:37	148:10	149:43	-	78:08	128		
129	144:59	146:32	148:04	149:37	151:10	152:42	154:15	-	77:03	129		
130	148:50	150:23	151:55	153:28	155:00	156:33	158:06	-	75:54	130		
131	152:02	153:40	155:12	156:45	158:18	159:51	161:23	-	74:43	131		
132	154:57	156:29	158:02	159:35	161:08	162:40	164:13	-	73:29	132		
133	157:12	158:45	160:18	161:51	163:24	164:57	166:30	-	72:13	133		
134	159:33	161:06	162:39	164:11	165:44	167:17	168:50	-	70:55	134		
135	161:27	162:59	164:32	166:05	167:37	169:10	170:43	-	69:37	135		
136	163:08	164:41	166:13	167:46	169:19	170:52	172:24	-	68:17	136		
137	164:39	166:11	167:44	169:17	170:49	172:22	173:55	-	66:57	137		
138	166:00	167:33	169:06	170:39	172:11	173:44	175:17	-	65:35	138		
139	167:15	168:47	170:20	171:53	173:26	174:58	176:31	-	64:14	139		
140	168:23	169:55	171:28	173:01	174:34	176:06	177:39	-	62:51	140		
141	169:25	170:58	172:31	174:03	175:36	177:09	178:42	-	61:29	141		
142	170:23	171:55	173:28	175:01	176:34	178:06	179:39	-	60:06	142		
143	171:16	172:49	174:22	175:54	177:27	179:00	180:33	-	58:42	143		
144	172:06	173:39	175:11	176:44	178:17	179:50	181:23	-	57:19	144		
145	172:53	174:25	175:58	177:31	179:04	180:37	182:10	-	55:55	145		
146	173:37	175:09	176:42	178:15	179:47	181:20	182:53	-	54:31	146		
147	174:18	175:51	177:23	178:56	180:29	182:02	183:35	-	53:06	147		

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PATH/ROW TO LATITUDE/LONGITUDE
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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	ROW
---	---	---	---	---	---	---	---	---	---	---	---	---	---
148	-51:42	-174:57	190	191	192	193	194	195	196	197	198	199	200
149	-50:17	-175:14	190	191	192	193	194	195	196	197	198	199	200
150	-48:52	-176:09	190	191	192	193	194	195	196	197	198	199	200
151	-47:27	-176:43	190	191	192	193	194	195	196	197	198	199	200
152	-46:02	-177:15	190	191	192	193	194	195	196	197	198	199	200
153	-44:37	-177:46	190	191	192	193	194	195	196	197	198	199	200
154	-43:11	-178:16	190	191	192	193	194	195	196	197	198	199	200
155	-41:46	-178:45	190	191	192	193	194	195	196	197	198	199	200
156	-40:20	-179:12	190	191	192	193	194	195	196	197	198	199	200
157	-38:54	-179:39	190	191	192	193	194	195	196	197	198	199	200
158	-37:29	-179:55	190	191	192	193	194	195	196	197	198	199	200
159	-36:03	-179:30	190	191	192	193	194	195	196	197	198	199	200
160	-34:37	-179:05	190	191	192	193	194	195	196	197	198	199	200
161	-33:11	-178:41	190	191	192	193	194	195	196	197	198	199	200
162	-31:45	-178:18	190	191	192	193	194	195	196	197	198	199	200
163	-30:18	-177:55	190	191	192	193	194	195	196	197	198	199	200
164	-28:52	-177:33	190	191	192	193	194	195	196	197	198	199	200
165	-27:26	-177:11	190	191	192	193	194	195	196	197	198	199	200
166	-26:00	-176:49	190	191	192	193	194	195	196	197	198	199	200
167	-24:33	-176:28	190	191	192	193	194	195	196	197	198	199	200
168	-23:07	-176:07	190	191	192	193	194	195	196	197	198	199	200
169	-21:40	-175:47	190	191	192	193	194	195	196	197	198	199	200
170	-20:14	-175:27	190	191	192	193	194	195	196	197	198	199	200
171	-18:47	-175:07	190	191	192	193	194	195	196	197	198	199	200
172	-17:21	-174:47	190	191	192	193	194	195	196	197	198	199	200
173	-15:54	-174:27	190	191	192	193	194	195	196	197	198	199	200
174	-14:27	-174:08	190	191	192	193	194	195	196	197	198	199	200
175	-13:01	-173:49	190	191	192	193	194	195	196	197	198	199	200
176	-11:34	-173:30	190	191	192	193	194	195	196	197	198	199	200
177	-10:07	-173:11	190	191	192	193	194	195	196	197	198	199	200
178	-8:41	-172:52	190	191	192	193	194	195	196	197	198	199	200
179	-7:14	-172:34	190	191	192	193	194	195	196	197	198	199	200
180	-5:47	-172:15	190	191	192	193	194	195	196	197	198	199	200
181	-4:20	-171:57	190	191	192	193	194	195	196	197	198	199	200
182	-2:54	-171:38	190	191	192	193	194	195	196	197	198	199	200
183	-1:27	-171:20	190	191	192	193	194	195	196	197	198	199	200
184	0:00	-171:01	190	191	192	193	194	195	196	197	198	199	200
185	1:27	-170:43	190	191	192	193	194	195	196	197	198	199	200
186	2:54	-170:25	190	191	192	193	194	195	196	197	198	199	200
187	4:20	-170:06	190	191	192	193	194	195	196	197	198	199	200
188	5:47	-169:48	190	191	192	193	194	195	196	197	198	199	200
189	7:14	-169:29	190	191	192	193	194	195	196	197	198	199	200
190	8:41	-169:10	190	191	192	193	194	195	196	197	198	199	200
191	10:07	-168:52	190	191	192	193	194	195	196	197	198	199	200
192	11:34	-168:33	190	191	192	193	194	195	196	197	198	199	200
193	13:01	-168:14	190	191	192	193	194	195	196	197	198	199	200
194	14:27	-167:55	190	191	192	193	194	195	196	197	198	199	200
195	15:54	-167:35	190	191	192	193	194	195	196	197	198	199	200
196	17:21	-167:16	190	191	192	193	194	195	196	197	198	199	200

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ROW	LATITUDE	P	L	D	N	G	I	T	U	D	E	(DEGREES-MINUTES)	LATITUDE	ROW
---	-----	---	---	---	---	---	---	---	---	---	---	---	-----	---
197	18147		190		191		192		193		194	195	196	197
198	20114		166156		165123		163151		162118		160145	159113	157140	198
199	21140		166136		165103		163131		161158		160125	158153	157120	199
200	23107		166116		164143		163111		161138		159138	158132	157100	200
201	24133		165155		164123		162150		161117		159145	158112	156139	201
202	26100		165135		164102		162129		160157		159124	157151	156118	202
203	27126		165114		163141		162108		160135		159135	157109	155157	203
204	28152		164152		163119		161147		160114		158141	156147	155136	204
205	30118		164108		162135		161125		159152		158119	156152	155114	205
206	31145		163145		161149		160140		159107		157134	156124	154129	206
207	33111		163122		161125		159152		158120		156147	155114	154109	207
208	34137		162158		161125		159152		158120		156147	155114	154109	208
209	36103		162133		160135		159102		157155		156122	154150	153117	209
210	37129		162108		160109		158136		157104		155131	154124	153103	210
211	38154		161142		160109		158136		156137		155104	153158	152126	211
212	40120		161115		159115		157142		156109		155131	153158	152126	212
213	41146		160147		158146		157113		156141		155104	153158	152126	213
214	43111		160119		158146		157113		156141		155104	153158	152126	214
215	44137		159149		158116		156143		155111		154108	153138	151102	215
216	46102		159118		157145		156113		155140		154108	153138	151102	216
217	47127		158146		157113		155140		154108		153138	151102	149156	217
218	48152		158132		156139		154131		153159		152135	151102	149156	218
219	50117		157137		156104		154131		153159		152135	151102	149156	219
220	51142		157100		155127		153154		152122		150149	149116	147143	220
221	53106		156121		154148		153115		152142		150149	149116	147143	221
222	54131		155139		154107		152134		151101		149128	147156	146123	222
223	55155		154155		153123		151150		150117		148145	147112	146123	223
224	57119		154109		152136		151103		149131		147158	146123	144103	224
225	58142		153119		151146		150114		148141		147108	145135	144103	225
226	60106		152125		150153		149120		147147		146115	144142	143109	226
227	61129		151128		149155		148122		146150		145117	143144	142112	227
228	62151		150125		148153		147120		145147		144115	142142	141109	228
229	64114		149117		147145		146112		144139		143107	141134	140101	229
230	65135		148103		146130		144158		143125		141152	140120	138158	230
231	66157		146141		145109		143136		141103		140130	138158	137125	231
232	68117		145111		143138		142105		140132		139100	137127	135154	232
233	69137		143129		141157		140124		138151		137118	135146	134113	233
234	70155		141136		140103		138130		136157		135125	133152	132119	234
235	72113		139127		137154		136121		134149		133116	131143	130110	235
236	73129		136159		135127		133154		132121		130149	129116	127143	236
237	74143		134110		132137		131104		129132		127159	126126	124154	237
238	75154		131102		129120		127147		126115		124142	123109	121136	238
239	77103		127102		125129		123156		122124		120151	119118	117145	239
240	78108		122129		120156		119124		117151		116118	114146	113113	240
241	79108		117106		115134		114101		112128		110155	109123	107150	241
242	80102		110144		109111		107138		105106		104133	103100	101127	242
243	80102		103114		101142		100109		98136		97104	95131	93158	243
244	81122		94137		93104		91132		89159		88126	86153	85121	244
245	81144		85101		83128		81156		79123		78150	77117	75145	245

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	RUN
246	81:51		190		191		192		193			196	246
247	81:44		74:51		73:18		71:45		70:12		68:40	67:07	247
248	81:22		64:40		63:07		61:35		60:02		58:29	56:57	248
249	81:22		55:04		53:31		51:59		50:26		48:53	47:21	249

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REPORT : HF1300
SUBSYSTEM : RSS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
LANDSAT MISSION MANAGEMENT FACILITY

REPORT : HF1300
SUBSYSTEM : RSS

PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES MINUTES)	LATITUDE	ROW
---	-----	----	---	---	---	---	---	---	---	---	---	-----	-----	---
001	80:47	60:21	59:48	57:16	55:43	54:10	52:37	51:05	49:32	48:00	46:27	44:54	43:21	001
002	80:02	52:52	46:19	49:46	48:14	46:41	45:08	43:35	42:02	40:29	38:56	37:23	35:50	002
003	79:08	46:29	41:06	43:24	41:51	40:18	38:45	37:13	35:40	34:07	32:34	31:01	29:28	003
004	78:08	41:06	39:34	38:01	36:28	34:55	33:23	31:50	30:17	28:44	27:11	25:38	24:05	004
005	77:03	36:34	35:01	33:28	31:56	30:23	28:50	27:17	25:44	24:11	22:38	21:05	19:32	005
006	75:54	32:43	31:10	29:37	28:05	26:32	25:00	23:27	21:54	20:21	18:48	17:15	15:42	006
007	74:43	29:26	27:53	26:20	24:48	23:15	21:42	20:09	18:36	17:03	15:30	13:57	12:24	007
008	73:29	26:36	25:03	23:31	21:58	20:25	18:52	17:20	15:47	14:14	12:41	11:08	9:35	008
009	72:13	24:09	22:36	21:03	19:31	17:58	16:25	14:52	13:19	11:46	10:13	8:40	7:07	009
010	70:55	22:00	20:27	18:54	17:22	15:49	14:16	12:44	11:11	9:38	8:05	6:32	4:59	010
011	69:37	20:06	18:33	17:01	15:28	13:55	12:23	10:50	9:17	7:44	6:11	4:38	3:05	011
012	68:17	18:25	16:52	15:19	13:47	12:14	10:41	9:09	7:36	6:03	4:30	2:57	1:24	012
013	66:57	16:54	15:21	13:49	12:16	10:43	9:11	7:38	6:05	4:32	2:59	1:26	0:03	013
014	65:35	15:32	14:00	12:27	10:54	9:21	7:49	6:16	4:43	3:10	1:37	0:04	-0:29	014
015	64:14	14:18	12:45	11:13	9:40	8:07	6:34	5:02	3:29	1:56	0:23	-0:50	-1:27	015
016	62:51	13:10	11:37	10:05	8:32	6:59	5:26	3:54	2:21	0:48	-0:25	-0:92	-1:69	016
017	61:29	12:08	10:35	9:02	7:29	5:57	4:24	2:51	1:18	-0:55	-1:22	-1:49	-2:16	017
018	60:06	11:10	9:37	8:05	6:32	4:59	3:26	1:54	0:21	-1:52	-2:19	-2:46	-3:13	018
019	58:42	10:16	8:44	7:11	5:38	4:06	2:33	1:00	-0:27	-1:54	-2:21	-2:48	-3:15	019
020	57:19	9:27	7:54	6:21	4:49	3:16	1:43	0:10	-1:17	-2:44	-3:11	-3:38	-4:05	020
021	55:55	8:40	7:07	5:35	4:02	2:29	0:56	-0:16	-1:43	-2:10	-2:37	-3:04	-3:31	021
022	54:31	7:56	6:23	4:51	3:18	1:45	0:13	-1:10	-2:37	-3:04	-3:31	-3:58	-4:25	022
023	53:06	7:15	5:42	4:09	2:37	1:04	-0:29	-1:56	-2:23	-2:50	-3:17	-3:44	-4:11	023
024	51:42	6:36	5:03	3:30	1:58	0:25	-1:02	-2:29	-2:56	-3:23	-3:50	-4:17	-4:44	024
025	50:17	5:59	4:26	2:53	1:21	-0:52	-2:19	-2:46	-3:13	-3:40	-4:07	-4:34	-5:01	025
026	48:52	5:23	3:51	2:18	0:45	-1:22	-2:49	-3:16	-3:43	-4:10	-4:37	-5:04	-5:31	026
027	47:27	4:50	3:17	1:44	0:12	-1:53	-2:20	-2:47	-3:14	-3:41	-4:08	-4:35	-5:02	027
028	46:02	4:17	2:45	1:12	0:21	-1:53	-2:20	-2:47	-3:14	-3:41	-4:08	-4:35	-5:02	028
029	44:37	3:46	2:14	0:41	-1:21	-2:48	-3:15	-3:42	-4:09	-4:36	-5:03	-5:30	-5:57	029
030	43:11	3:17	1:44	0:11	-1:21	-2:48	-3:15	-3:42	-4:09	-4:36	-5:03	-5:30	-5:57	030
031	41:46	2:48	1:15	0:17	-1:50	-3:17	-3:44	-4:11	-4:38	-5:05	-5:32	-5:59	-6:26	031
032	40:20	2:20	0:48	0:15	-2:18	-3:45	-4:12	-4:39	-5:06	-5:33	-6:00	-6:27	-6:54	032
033	38:54	1:54	0:21	-1:50	-3:17	-4:44	-5:11	-5:38	-6:05	-6:32	-6:59	-7:26	-7:53	033
034	37:29	1:28	0:05	-1:38	-3:05	-4:32	-4:59	-5:26	-5:53	-6:20	-6:47	-7:14	-7:41	034
035	36:03	1:02	0:30	-2:03	-3:30	-4:57	-5:24	-5:51	-6:18	-6:45	-7:12	-7:39	-8:06	035
036	34:37	0:38	0:06	-2:38	-4:05	-5:32	-6:00	-6:27	-6:54	-7:21	-7:48	-8:15	-8:42	036
037	33:11	0:14	-1:19	-2:52	-4:24	-5:57	-6:24	-6:51	-7:18	-7:45	-8:12	-8:39	-9:06	037
038	31:45	0:10	-1:42	-3:15	-4:48	-6:20	-6:47	-7:14	-7:41	-8:08	-8:35	-9:02	-9:29	038
039	30:18	0:32	-2:05	-3:38	-5:11	-6:44	-7:11	-7:38	-8:05	-8:32	-8:59	-9:26	-9:53	039
040	28:52	0:55	-2:27	-4:00	-5:33	-7:06	-7:33	-8:00	-8:27	-8:54	-9:21	-9:48	-10:15	040
041	27:26	1:17	-2:49	-4:22	-5:55	-7:27	-7:54	-8:21	-8:48	-9:15	-9:42	-10:09	-10:36	041
042	26:00	1:38	-3:11	-4:44	-6:16	-7:49	-8:16	-8:43	-9:10	-9:37	-10:04	-10:31	-10:58	042
043	24:33	1:59	-3:32	-5:05	-6:37	-8:10	-8:37	-9:04	-9:31	-9:58	-10:25	-10:52	-11:19	043
044	23:07	2:20	-3:53	-5:26	-6:58	-8:31	-8:58	-9:25	-9:52	-10:19	-10:46	-11:13	-11:40	044
045	21:40	2:41	-4:13	-5:46	-7:19	-8:51	-9:18	-9:45	-10:12	-10:39	-11:06	-11:33	-12:00	045
046	20:14	3:01	-4:33	-6:06	-7:39	-9:12	-9:39	-10:14	-10:41	-11:08	-11:35	-12:02	-12:29	046
047	18:47	3:21	-4:53	-6:26	-7:59	-9:32	-10:04	-10:31	-10:58	-11:25	-11:52	-12:19	-12:46	047
048	17:21	3:40	-5:13	-6:46	-8:19	-9:51	-10:18	-10:45	-11:12	-11:39	-12:06	-12:33	-13:00	048
049	15:54	4:00	-5:33	-7:05	-8:38	-10:11	-10:38	-11:05	-11:32	-11:59	-12:26	-12:53	-13:20	049

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REPORT : RF1300
SUBSYSTEM : RSS

NOTIONAL AERONAUTICS AND SPACE ADMINISTRATION
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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	L	O	N	G	I	T	U	D	E	(DEGREES MINUTES)	201	202	203	LATITUDE	ROW
---	----	---	---	---	---	---	---	---	---	---	---	---	---	---	----	---
050	14:27	4:19	5:52	-	7:25	-	8:57	-	10:30	-	12:03	-	13:35	-	14:27	050
051	13:01	4:38	6:11	-	7:44	-	9:16	-	10:49	-	12:22	-	13:55	-	13:01	051
052	11:34	4:57	6:30	-	8:03	-	9:35	-	11:08	-	12:41	-	14:14	-	11:34	052
053	10:07	5:16	6:49	-	8:22	-	9:54	-	11:27	-	13:00	-	14:32	-	10:07	053
054	8:41	5:35	7:08	-	8:40	-	10:13	-	11:46	-	13:18	-	14:51	-	8:41	054
055	7:14	5:54	7:26	-	8:59	-	10:32	-	12:04	-	13:37	-	15:10	-	7:14	055
056	5:47	6:12	7:45	-	9:18	-	10:50	-	12:23	-	13:56	-	15:28	-	5:47	056
057	4:20	6:31	8:03	-	9:36	-	11:09	-	12:41	-	14:14	-	15:47	-	4:20	057
058	2:54	6:49	8:22	-	9:55	-	11:27	-	13:00	-	14:33	-	16:05	-	2:54	058
059	1:27	7:08	8:40	-	10:13	-	11:46	-	13:18	-	14:51	-	16:24	-	1:27	059
060	0:00	7:26	8:59	-	10:31	-	12:04	-	13:37	-	15:09	-	16:42	-	0:00	060
061	-1:27	7:44	9:17	-	10:50	-	12:22	-	13:55	-	15:28	-	17:01	-	-1:27	061
062	-2:54	8:03	9:35	-	11:08	-	12:41	-	14:14	-	15:46	-	17:19	-	-2:54	062
063	-4:20	8:21	9:54	-	11:27	-	12:59	-	14:32	-	16:05	-	17:37	-	-4:20	063
064	-5:47	8:40	10:12	-	11:45	-	13:18	-	14:51	-	16:23	-	17:56	-	-5:47	064
065	-7:14	8:58	10:31	-	12:04	-	13:36	-	15:08	-	16:42	-	18:15	-	-7:14	065
066	-8:41	9:17	10:50	-	12:22	-	13:55	-	15:28	-	17:00	-	18:33	-	-8:41	066
067	-10:07	9:36	11:08	-	12:41	-	14:14	-	15:46	-	17:19	-	18:52	-	-10:07	067
068	-11:34	9:55	11:27	-	13:00	-	14:33	-	16:05	-	17:38	-	19:11	-	-11:34	068
069	-13:01	10:14	11:46	-	13:19	-	14:52	-	16:24	-	17:57	-	19:30	-	-13:01	069
070	-14:27	10:33	12:05	-	13:38	-	15:11	-	16:43	-	18:16	-	19:49	-	-14:27	070
071	-15:54	10:52	12:25	-	13:57	-	15:30	-	17:03	-	18:35	-	20:08	-	-15:54	071
072	-17:21	11:11	12:44	-	14:17	-	15:50	-	17:22	-	18:55	-	20:28	-	-17:21	072
073	-18:47	11:31	13:04	-	14:37	-	16:09	-	17:42	-	19:15	-	20:47	-	-18:47	073
074	-20:14	11:51	13:24	-	14:57	-	16:29	-	18:02	-	19:35	-	21:07	-	-20:14	074
075	-21:40	12:11	13:44	-	15:17	-	16:49	-	18:22	-	19:55	-	21:28	-	-21:40	075
076	-23:07	12:32	14:05	-	15:37	-	17:10	-	18:43	-	20:15	-	21:48	-	-23:07	076
077	-24:33	12:53	14:25	-	15:58	-	17:31	-	19:03	-	20:36	-	22:09	-	-24:33	077
078	-26:00	13:14	14:46	-	16:19	-	17:52	-	19:25	-	20:57	-	22:30	-	-26:00	078
079	-27:26	13:35	15:08	-	16:41	-	18:13	-	19:46	-	21:19	-	22:51	-	-27:26	079
080	-28:52	13:57	15:30	-	17:03	-	18:35	-	20:08	-	21:41	-	23:13	-	-28:52	080
081	-30:18	14:20	15:52	-	17:25	-	18:58	-	20:30	-	22:03	-	23:36	-	-30:18	081
082	-31:45	14:42	16:15	-	17:48	-	19:20	-	20:53	-	22:26	-	23:59	-	-31:45	082
083	-33:11	15:06	16:38	-	18:11	-	19:44	-	21:17	-	22:49	-	24:22	-	-33:11	083
084	-34:37	15:30	17:02	-	18:35	-	20:08	-	21:40	-	23:13	-	24:46	-	-34:37	084
085	-36:03	15:54	17:27	-	19:00	-	20:32	-	22:05	-	23:38	-	25:10	-	-36:03	085
086	-37:29	16:19	17:52	-	19:25	-	20:58	-	22:30	-	24:03	-	25:36	-	-37:29	086
087	-38:54	16:45	18:18	-	19:51	-	21:24	-	22:56	-	24:29	-	26:02	-	-38:54	087
088	-40:20	17:12	18:45	-	20:18	-	21:50	-	23:23	-	24:56	-	26:28	-	-40:20	088
089	-41:46	17:40	19:13	-	20:45	-	22:18	-	23:51	-	25:23	-	26:56	-	-41:46	089
090	-43:11	18:09	19:41	-	21:14	-	22:47	-	24:19	-	25:52	-	27:25	-	-43:11	090
091	-44:37	18:38	20:11	-	21:44	-	23:17	-	24:49	-	26:22	-	27:55	-	-44:37	091
092	-46:02	19:09	20:42	-	22:15	-	23:47	-	25:20	-	26:53	-	28:26	-	-46:02	092
093	-47:27	19:42	21:14	-	22:47	-	24:20	-	25:52	-	27:25	-	28:58	-	-47:27	093
094	-48:52	20:15	21:48	-	23:21	-	24:53	-	26:26	-	27:59	-	29:32	-	-48:52	094
095	-50:17	20:51	22:23	-	23:56	-	25:29	-	27:01	-	28:34	-	30:07	-	-50:17	095
096	-51:42	21:28	23:00	-	24:33	-	26:06	-	27:38	-	29:11	-	30:44	-	-51:42	096
097	-53:06	22:07	23:39	-	25:12	-	26:45	-	28:18	-	29:50	-	31:23	-	-53:06	097
098	-54:31	22:48	24:21	-	25:33	-	27:06	-	28:39	-	30:12	-	31:45	-	-54:31	098

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GUARDIAN SPACE FLIGHT CENTER
LANDSAT MISSION MANAGEMENT FACILITY

REPORT : RF1800
SUBSYSTEM : MSS

PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	200	201	202	203	LATITUDE	ROW														
099	-55155	-23132	-25103	-26137	-28110	-29143	-31115	-32148	-33135	-34122	-35155	-36157	-37157	-38124	-39128	-40100	-41100	-42133	-43133	-44108	-45117	-46137	-47155	-48117	-49137	-50155	-51117	-52133	-53155	099		
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FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	L	D	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
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213	41146	149158	148126	146154	145122	144149	143116	141146	213	213	213	213	213	213
214	43111	149130	147157	145155	144122	143116	141146	140146	214	214	214	214	214	214
215	44137	149100	147127	145124	143151	142145	141146	140146	215	215	215	215	215	215
216	46102	148129	146156	144151	143119	142145	141146	140146	216	216	216	216	216	216
217	47127	147157	146124	144151	143119	142145	141146	140146	217	217	217	217	217	217
218	48152	147123	145150	144118	142145	141146	140146	139140	218	218	218	218	218	218
219	50117	146148	145115	143105	142110	141146	140146	139140	219	219	219	219	219	219
220	51142	146111	144138	143105	141146	140146	139140	138134	220	220	220	220	220	220
221	53106	145132	143159	142126	140153	139140	138134	137148	221	221	221	221	221	221
222	54131	144150	143118	141145	140112	139140	138134	137148	222	222	222	222	222	222
223	55155	144106	142134	141101	139128	138134	137148	136158	223	223	223	223	223	223
224	57119	143120	141147	140114	138142	137148	136158	135136	224	224	224	224	224	224
225	58142	142130	140157	139125	137152	136158	135136	134104	225	225	225	225	225	225
226	60106	141137	140104	138131	136158	135136	134104	133120	226	226	226	226	226	226
227	61129	140139	139106	137133	136158	135136	134104	133120	227	227	227	227	227	227
228	62151	139136	138104	136158	135136	134104	133120	132154	228	228	228	228	228	228
229	64114	138129	137114	135123	134109	133150	132154	131142	229	229	229	229	229	229
230	65135	137114	136156	135123	134109	133150	132154	131142	230	230	230	230	230	230
231	66157	136152	136120	134147	133144	132154	131142	130120	231	231	231	231	231	231
232	68117	135152	135149	134147	133144	132154	131142	130120	232	232	232	232	232	232
233	69137	134122	134149	133135	132154	131142	130120	129154	233	233	233	233	233	233
234	70155	133147	133114	132141	131142	130120	129154	128138	234	234	234	234	234	234
235	72113	128138	128138	127132	126158	125132	124100	123154	235	235	235	235	235	235
236	73129	126110	128138	127132	126158	125132	124100	123154	236	236	236	236	236	236
237	74143	123121	128138	127132	126158	125132	124100	123154	237	237	237	237	237	237
238	75154	120104	128138	127132	126158	125132	124100	123154	238	238	238	238	238	238
239	77103	116113	128138	127132	126158	125132	124100	123154	239	239	239	239	239	239
240	78108	111140	128138	127132	126158	125132	124100	123154	240	240	240	240	240	240
241	79108	106117	128138	127132	126158	125132	124100	123154	241	241	241	241	241	241
242	80102	99155	128138	127132	126158	125132	124100	123154	242	242	242	242	242	242
243	80147	92125	128138	127132	126158	125132	124100	123154	243	243	243	243	243	243
244	81122	83148	128138	127132	126158	125132	124100	123154	244	244	244	244	244	244
245	81144	74112	128138	127132	126158	125132	124100	123154	245	245	245	245	245	245

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
246	81:51	64:02	197	198	199	200	201	202	203				81:51	246
247	81:44	53:51		62:29	60:56	59:23	57:51	56:18	54:45				81:44	247
248	81:22	41:15		52:18	50:46	49:13	47:40	46:08	44:35				81:22	248
				42:43	41:10	39:37	38:04	36:32	34:59					

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PATH/ROW TO LATITUDE/LONGITUDE
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ROW	LATITUDE	PATH:											LATITUDE	ROW
		204	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)		
001	80:47	49:32	47:59	46:27	44:54	43:21	41:49	40:16	38:47	37:15	35:42	34:19	80:47	001
002	80:02	42:03	40:30	38:57	37:25	35:52	34:19	32:47	31:15	29:42	28:10	26:37	80:02	002
003	79:08	35:40	34:08	32:35	31:02	29:29	27:57	26:24	24:51	23:18	21:45	20:12	79:08	003
004	78:08	30:17	28:45	27:12	25:39	24:07	22:34	21:01	19:28	17:55	16:22	14:50	78:08	004
005	77:03	25:45	24:12	22:39	21:07	19:34	18:01	16:28	14:55	13:22	11:50	10:17	77:03	005
006	75:54	21:54	20:21	18:48	17:16	15:43	14:10	12:38	11:05	9:32	8:00	6:27	75:54	006
007	74:43	18:27	17:04	15:31	14:09	12:36	11:03	9:30	8:00	6:27	4:54	3:21	74:43	007
008	73:29	15:47	14:14	12:42	11:09	9:36	8:04	6:31	5:00	3:27	1:55	0:22	73:29	008
009	72:13	13:20	11:47	10:14	8:42	7:09	5:36	4:04	2:31	1:00	-0:32	-1:00	72:13	009
010	70:55	11:11	9:38	8:06	6:33	5:00	3:27	1:55	0:22	-0:50	-1:17	-1:45	70:55	010
011	69:37	9:17	7:44	6:12	4:39	3:05	1:34	0:01	-0:32	-1:00	-1:28	-1:56	69:37	011
012	68:17	7:36	6:03	4:31	2:58	1:25	0:00	-0:32	-1:00	-1:28	-1:56	-2:24	68:17	012
013	66:57	6:05	4:33	3:00	1:27	0:00	-0:32	-1:00	-1:28	-1:56	-2:24	-2:52	66:57	013
014	65:35	4:43	3:11	1:38	0:05	-0:32	-1:00	-1:28	-1:56	-2:24	-2:52	-3:20	65:35	014
015	64:14	3:29	1:56	0:24	1:09	2:42	4:15	5:47	7:20	8:52	10:25	11:58	64:14	015
016	62:51	2:21	0:48	0:44	2:17	3:50	5:23	6:55	8:28	10:01	11:34	13:07	62:51	016
017	61:29	1:19	0:14	1:47	3:19	4:52	6:25	7:58	9:31	11:04	12:37	14:10	61:29	017
018	60:06	0:21	1:12	2:44	4:17	5:50	7:23	8:56	10:29	12:02	13:35	15:08	60:06	018
019	58:42	0:32	2:05	3:38	5:11	6:43	8:16	9:49	11:22	12:55	14:28	16:01	58:42	019
020	57:19	1:22	2:55	4:28	6:00	7:33	9:06	10:39	12:12	13:45	15:18	16:51	57:19	020
021	55:55	2:09	3:42	5:14	6:47	8:20	9:53	11:26	12:59	14:32	16:05	17:38	55:55	021
022	54:31	2:53	4:25	5:58	7:31	9:04	10:36	12:09	13:42	15:15	16:48	18:21	54:31	022
023	53:06	3:34	5:07	6:39	8:12	9:45	11:18	12:51	14:24	15:57	17:30	19:03	53:06	023
024	51:42	4:13	5:46	7:19	8:51	10:24	11:57	13:30	15:03	16:36	18:09	19:42	51:42	024
025	50:17	4:50	6:23	7:56	9:28	11:01	12:34	14:07	15:40	17:13	18:46	20:19	50:17	025
026	48:52	5:26	6:58	8:31	10:04	11:37	13:10	14:43	16:16	17:49	19:22	20:55	48:52	026
027	47:27	6:03	7:32	9:05	10:38	12:11	13:44	15:17	16:50	18:23	19:56	21:29	47:27	027
028	46:02	6:41	8:10	9:43	11:16	12:49	14:22	15:55	17:28	19:01	20:34	22:07	46:02	028
029	44:37	7:12	8:41	10:14	11:47	13:20	14:53	16:26	17:59	19:32	21:05	22:38	44:37	029
030	43:11	7:52	9:21	10:54	12:27	14:00	15:33	17:06	18:39	20:12	21:45	23:18	43:11	030
031	41:46	8:29	9:58	11:31	13:04	14:37	16:10	17:43	19:16	20:49	22:22	23:55	41:46	031
032	40:20	9:01	10:30	12:03	13:36	15:09	16:42	18:15	19:48	21:21	22:54	24:27	40:20	032
033	38:54	9:55	11:24	12:57	14:30	16:03	17:36	19:09	20:42	22:15	23:48	25:21	38:54	033
034	37:28	10:21	11:50	13:23	14:56	16:29	18:02	19:35	21:08	22:41	24:14	25:47	37:28	034
035	36:03	10:47	12:16	13:49	15:22	16:55	18:28	20:01	21:34	23:07	24:40	26:13	36:03	035
036	34:37	11:11	12:40	14:13	15:46	17:19	18:52	20:25	21:58	23:31	25:04	26:37	34:37	036
037	33:11	10:35	12:08	13:41	15:14	16:47	18:20	19:53	21:26	22:59	24:32	26:05	33:11	037
038	31:45	10:58	12:31	14:04	15:37	17:10	18:43	20:16	21:49	23:22	24:55	26:28	31:45	038
039	30:18	11:21	12:54	14:27	16:00	17:33	19:06	20:39	22:12	23:45	25:18	26:51	30:18	039
040	28:52	11:44	13:16	14:49	16:22	17:55	19:28	21:01	22:34	24:07	25:40	27:13	28:52	040
041	27:26	12:06	13:38	15:11	16:44	18:17	19:50	21:23	22:56	24:29	26:02	27:35	27:26	041
042	26:00	12:27	14:00	15:33	17:06	18:39	20:12	21:45	23:18	24:51	26:24	27:57	26:00	042
043	24:33	12:48	14:21	15:54	17:27	19:00	20:33	22:06	23:39	25:12	26:45	28:18	24:33	043
044	23:07	13:09	14:42	16:14	17:47	19:20	20:53	22:26	23:59	25:32	27:05	28:38	23:07	044
045	21:40	13:30	15:02	16:35	18:08	19:40	21:13	22:46	24:19	25:52	27:25	28:58	21:40	045
046	20:14	13:50	15:22	16:55	18:28	20:00	21:33	23:06	24:39	26:12	27:45	29:18	20:14	046
047	18:47	14:10	15:42	17:15	18:48	20:20	21:53	23:26	24:59	26:32	28:05	29:38	18:47	047
048	17:21	14:29	16:02	17:35	19:07	20:40	22:13	23:46	25:19	26:52	28:25	29:58	17:21	048
049	15:54	14:49	16:22	17:55	19:27	21:00	22:33	24:06	25:39	27:12	28:45	30:18	15:54	049

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FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	DATE	TIME	L	O	N	G	I	T	U	E	(DEGREES/MINUTES)	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
LANDSAT MISSION MANAGEMENT FACILITY

PAGE : 171
DATE : 03-AUG-81
TIME : 1710

ORIGINAL PAGE IS
OF POOR QUALITY

ROW	LATITUDE	PATH/ROW TO LATITUDE/LONGITUDE FOR ADJACENT PATHS ON EARTH												LATITUDE	ROW
		204	205	206	207	208	209	210	(DEGREES/MINUTES)						
099	-55:55	-34:21	-35:54	-37:26	-38:59	-40:32	-42:04	-43:37	-55:55					-55:55	099
100	-57:19	-35:07	-36:40	-38:13	-39:46	-41:18	-42:51	-44:24	-57:19					-57:19	100
101	-58:42	-35:57	-37:30	-39:03	-40:35	-42:08	-43:41	-45:14	-58:42					-58:42	101
102	-60:06	-36:51	-38:23	-39:56	-41:29	-43:02	-44:34	-46:07	-60:06					-60:06	102
103	-61:29	-37:48	-39:21	-40:54	-42:27	-43:59	-45:32	-47:05	-61:29					-61:29	103
104	-62:51	-38:51	-40:24	-41:56	-43:29	-45:02	-46:34	-48:07	-62:51					-62:51	104
105	-64:14	-39:59	-41:31	-43:04	-44:37	-46:10	-47:42	-49:15	-64:14					-64:14	105
106	-65:35	-41:13	-42:46	-44:19	-45:51	-47:24	-48:57	-50:29	-65:35					-65:35	106
107	-66:57	-42:35	-44:08	-45:40	-47:13	-48:46	-50:18	-51:51	-66:57					-66:57	107
108	-68:17	-43:06	-44:38	-46:11	-47:44	-49:16	-50:49	-52:22	-68:17					-68:17	108
109	-69:37	-43:47	-45:19	-46:52	-48:25	-49:57	-51:30	-53:03	-69:37					-69:37	109
110	-70:55	-44:11	-45:44	-47:17	-48:50	-50:23	-51:56	-53:29	-70:55					-70:55	110
111	-72:13	-44:50	-46:23	-47:56	-49:29	-51:02	-52:35	-54:08	-72:13					-72:13	111
112	-73:29	-45:17	-46:50	-48:23	-49:56	-51:29	-53:02	-54:35	-73:29					-73:29	112
113	-74:43	-45:56	-47:29	-49:02	-50:35	-52:08	-53:41	-55:14	-74:43					-74:43	113
114	-75:54	-46:14	-47:47	-49:20	-50:53	-52:26	-53:59	-55:32	-75:54					-75:54	114
115	-77:03	-46:17	-47:50	-49:23	-50:56	-52:29	-54:02	-55:35	-77:03					-77:03	115
116	-78:08	-46:17	-47:50	-49:23	-50:56	-52:29	-54:02	-55:35	-78:08					-78:08	116
117	-79:08	-46:17	-47:50	-49:23	-50:56	-52:29	-54:02	-55:35	-79:08					-79:08	117
118	-80:02	-46:17	-47:50	-49:23	-50:56	-52:29	-54:02	-55:35	-80:02					-80:02	118
119	-80:47	-46:17	-47:50	-49:23	-50:56	-52:29	-54:02	-55:35	-80:47					-80:47	119
120	-81:22	-46:17	-47:50	-49:23	-50:56	-52:29	-54:02	-55:35	-81:22					-81:22	120
121	-81:44	-46:17	-47:50	-49:23	-50:56	-52:29	-54:02	-55:35	-81:44					-81:44	121
122	-81:51	-46:17	-47:50	-49:23	-50:56	-52:29	-54:02	-55:35	-81:51					-81:51	122
123	-81:44	-46:17	-47:50	-49:23	-50:56	-52:29	-54:02	-55:35	-81:44					-81:44	123
124	-81:22	-46:17	-47:50	-49:23	-50:56	-52:29	-54:02	-55:35	-81:22					-81:22	124
125	-80:47	-46:17	-47:50	-49:23	-50:56	-52:29	-54:02	-55:35	-80:47					-80:47	125
126	-80:02	-46:17	-47:50	-49:23	-50:56	-52:29	-54:02	-55:35	-80:02					-80:02	126
127	-79:08	-46:17	-47:50	-49:23	-50:56	-52:29	-54:02	-55:35	-79:08					-79:08	127
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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
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149	-50:17	162:48	161:15	159:43	158:10	156:37	155:03	153:32	-50:17	149				
150	-48:52	162:13	160:40	159:07	157:35	156:02	154:28	152:57	-48:52	150				
151	-47:27	161:39	160:06	158:34	157:01	155:28	153:56	152:23	-47:27	151				
152	-46:02	161:07	159:34	158:01	156:29	154:56	153:23	151:51	-46:02	152				
153	-44:37	160:36	159:03	157:31	155:58	154:25	152:52	151:20	-44:37	153				
154	-43:11	160:06	158:33	157:01	155:28	153:55	152:23	150:50	-43:11	154				
155	-41:46	159:37	158:05	156:32	154:59	153:27	151:54	150:21	-41:46	155				
156	-40:20	159:10	157:37	156:04	154:32	152:59	151:26	149:54	-40:20	156				
157	-38:54	158:43	157:10	155:38	154:05	152:32	150:59	149:27	-38:54	157				
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159	-36:03	157:52	156:19	154:46	153:14	151:41	150:08	148:36	-36:03	159				
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ROW	LATITUDE	PATH:	204	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	209	210	LATITUDE	ROW						
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247	81:44	43:02		51:40	50:07	48:35	47:02	45:29	43:56				81:44	247
248	81:22	33:26		41:30	39:57	38:24	36:51	35:19	33:46				81:22	248
				31:54	30:21	28:48	27:15	25:43	24:10					

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
001	80147	38143	211	212	213	214	215	216	217			217	80147	001
002	80102	38114		29141	28108	26136	25103	23100	21158			2158	80102	002
003	79108	24151		23119	21146	20135	18141	17108	15135			1535	79108	003
004	78108	19128		17156	16123	14150	13116	11145	10112			1012	78108	004
005	77103	14156		13123	11150	10118	8145	7112	5140			5140	77103	005
006	75154	11105		9132	7159	6127	4155	3121	1149			1149	75154	006
007	74143	7148		6115	4142	3110	1137	0104	1120			1120	74143	007
008	73129	4158		3125	1153	0120	1113	2145	4118			4118	73129	008
009	72113	2131		0158	0135	2107	3140	5113	6145			6145	72113	009
010	70155	0122		1111	0143	4116	5149	7122	8154			8154	70155	010
011	69137	1132		3104	2143	4116	7149	9115	10140			10140	69137	011
012	68117	3113		4146	6118	7151	9124	10157	12129			12129	68117	012
013	66157	4144		6116	7149	9122	10155	12127	13100			13100	66157	013
014	65135	5135		8153	10125	11133	12116	13103	14100			14100	65135	014
015	64114	7120		10101	11133	12136	13131	14111	15122			15122	64114	015
016	62151	8128		11103	12136	13106	14139	15111	16136			16136	62151	016
017	61129	9130		12101	13133	14108	15141	16114	17145			17145	61129	017
018	60106	10128		12154	13133	14106	15139	16111	17144			17144	60106	018
019	58142	11121		13144	14127	15106	16139	17111	18144			18144	58142	019
020	57119	12111		14131	15147	16120	17132	18105	19138			19138	57119	020
021	55155	13142		15114	16147	17120	18120	19153	20127			20127	55155	021
022	54131	14121		16135	17128	18107	19140	20134	21158			21158	54131	022
023	53106	15102		17112	18145	19120	20117	21150	22107			22107	53106	023
024	51142	16114		18121	19154	20126	21159	22132	23139			23139	51142	024
025	50117	17120		19124	20157	21155	22129	23158	24155			24155	50117	025
026	48152	18148		20150	21155	22126	23156	24152	25131			25131	48152	026
027	47127	19151		21117	22126	23156	24122	25128	26104			26104	47127	027
028	46102	20136		22108	23141	24106	25114	26121	27108			27108	46102	028
029	44137	21144		23133	24106	25116	26148	27111	28137			28137	44137	029
030	43111	22110		24127	25116	26148	27141	28146	29152			29152	43111	030
031	41146	23117		25117	26143	27154	28151	29154	30146			30146	41146	031
032	40120	24110		26110	27154	28151	29154	30146	31141			31141	40120	032
033	38154	25110		27154	28151	29154	30146	31141	32132			32132	38154	033
034	37129	26103		28151	29154	30146	31141	32132	33127			33127	37129	034
035	36103	27126		29154	30146	31141	32132	33127	34122			34122	36103	035
036	34137	28154		30146	31141	32132	33127	34122	35117			35117	34137	036
037	33111	29154		31141	32132	33127	34122	35117	36112			36112	33111	037
038	31145	30118		32132	33127	34122	35117	36112	37107			37107	31145	038
039	30118	28152		33127	34122	35117	36112	37107	38102			38102	30118	039
040	28152	27126		34122	35117	36112	37107	38102	39157			39157	28152	040
041	27126	26100		35117	36112	37107	38102	39157	40152			40152	27126	041
042	26100	24133		36112	37107	38102	39157	40152	41147			41147	26100	042
043	24133	23107		37107	38102	39157	40152	41147	42142			42142	24133	043
044	23107	21144		38102	39157	40152	41147	42142	43137			43137	23107	044
045	21144	20114		39157	40152	41147	42142	43137	44132			44132	21144	045
046	20114	18147		40152	41147	42142	43137	44132	45127			45127	20114	046
047	18147	17121		41147	42142	43137	44132	45127	46122			46122	18147	047
048	17121	15154		42142	43137	44132	45127	46122	47117			47117	17121	048
049	15154			43137	44132	45127	46122	47117	48112			48112	15154	049

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
---	-----	-----	---	---	---	---	---	---	---	---	---	-----	-----	---
050	14127	-	25157	-	27130	-	23103	-	30135	-	32108	-	35113	050
051	13101	-	26116	-	27149	-	23122	-	30154	-	32127	-	35132	051
052	11134	-	26135	-	28108	-	23141	-	31113	-	32146	-	35151	052
053	10107	-	26154	-	28127	-	23159	-	31132	-	33105	-	36110	053
054	8141	-	27113	-	28146	-	30118	-	31151	-	33124	-	36129	054
055	7114	-	27131	-	29104	-	30137	-	32110	-	33142	-	36148	055
056	5147	-	27150	-	29123	-	30155	-	32128	-	34101	-	37105	056
057	4120	-	28109	-	29141	-	31114	-	32147	-	34119	-	37123	057
058	2154	-	28127	-	30100	-	31132	-	33105	-	34138	-	37141	058
059	1127	-	28145	-	30118	-	31151	-	33124	-	34156	-	37159	059
060	0100	-	29104	-	30137	-	32109	-	33142	-	35115	-	38102	060
061	-1127	-	29122	-	30155	-	32128	-	34100	-	35133	-	38120	061
062	-2154	-	29141	-	31113	-	32146	-	34119	-	35151	-	38138	062
063	-4120	-	29159	-	31132	-	33104	-	34137	-	36110	-	38157	063
064	-5147	-	30118	-	31150	-	33123	-	34156	-	36128	-	39115	064
065	-7114	-	30136	-	32109	-	33142	-	35114	-	36147	-	39134	065
066	-8141	-	30155	-	32127	-	33160	-	35133	-	37106	-	39152	066
067	-10107	-	31114	-	32146	-	34119	-	36111	-	37124	-	40111	067
068	-11134	-	31132	-	33105	-	34137	-	36129	-	37142	-	40130	068
069	-13101	-	31151	-	33124	-	34156	-	36148	-	37160	-	40149	069
070	-14127	-	32111	-	33143	-	35116	-	37108	-	38121	-	41127	070
071	-15154	-	32130	-	34103	-	35135	-	37127	-	38140	-	41146	071
072	-17121	-	32149	-	34122	-	35154	-	37146	-	39100	-	41165	072
073	-18147	-	33109	-	34141	-	36114	-	37165	-	39120	-	42125	073
074	-20114	-	33129	-	35102	-	36134	-	38107	-	39140	-	42144	074
075	-21140	-	33149	-	35122	-	36155	-	38127	-	40100	-	43105	075
076	-23107	-	34110	-	36142	-	37115	-	38146	-	40120	-	43124	076
077	-24133	-	34130	-	36163	-	37136	-	39109	-	40141	-	43143	077
078	-26100	-	34152	-	36184	-	37157	-	39130	-	41102	-	43162	078
079	-28126	-	35113	-	37106	-	38119	-	39151	-	41124	-	43181	079
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081	-31145	-	35157	-	37150	-	38162	-	40135	-	41168	-	43219	081
082	-33111	-	36120	-	37173	-	39126	-	40158	-	42108	-	43238	082
083	-34137	-	36144	-	38116	-	39149	-	41122	-	42131	-	43257	083
084	-36103	-	37108	-	38140	-	40113	-	41146	-	42154	-	43276	084
085	-37129	-	37132	-	39105	-	40137	-	42120	-	43118	-	43295	085
086	-38154	-	37157	-	39130	-	40162	-	42145	-	43143	-	43314	086
087	-40120	-	38123	-	39156	-	41129	-	43101	-	43168	-	43333	087
088	-41146	-	39118	-	40123	-	41156	-	43126	-	43193	-	43352	088
089	-43111	-	39146	-	40151	-	41184	-	43156	-	43220	-	43371	089
090	-44137	-	40116	-	41119	-	42121	-	43184	-	43249	-	43390	090
091	-46102	-	40147	-	41153	-	42152	-	43212	-	43277	-	43409	091
092	-48152	-	41127	-	42128	-	43128	-	43137	-	43196	-	43428	092
093	-50117	-	41153	-	43126	-	44159	-	43159	-	43218	-	43447	093
094	-51142	-	42128	-	44101	-	45134	-	43184	-	43244	-	43466	094
095	-53106	-	43145	-	45117	-	46111	-	43212	-	43271	-	43485	095
096	-54131	-	43166	-	45138	-	46138	-	43241	-	43300	-	43504	096
097	-55156	-	43187	-	45159	-	46159	-	43270	-	43329	-	43523	097
098	-56181	-	43208	-	45180	-	46180	-	43299	-	43358	-	43542	098

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
---	-----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	---
099	-55:55	-	45:10	-	46:42	-	48:15	-	49:48	-	51:21	-	52:53	099
100	-57:19	-	45:56	-	47:29	-	49:02	-	50:34	-	52:07	-	53:40	100
101	-58:42	-	46:46	-	48:19	-	49:52	-	51:24	-	52:57	-	54:30	101
102	-60:06	-	47:40	-	49:12	-	50:45	-	52:18	-	53:51	-	55:23	102
103	-61:29	-	48:37	-	49:51	-	51:24	-	52:57	-	54:30	-	56:02	103
104	-62:51	-	49:40	-	51:12	-	52:45	-	54:18	-	55:51	-	57:23	104
105	-64:14	-	50:48	-	52:20	-	53:53	-	55:26	-	56:59	-	58:31	105
106	-65:35	-	52:02	-	53:35	-	55:07	-	56:40	-	58:13	-	59:46	106
107	-66:57	-	53:24	-	54:57	-	56:29	-	58:02	-	59:35	-	61:07	107
108	-68:17	-	54:55	-	56:27	-	58:00	-	59:33	-	61:06	-	62:38	108
109	-69:37	-	56:36	-	58:09	-	59:41	-	61:14	-	62:47	-	64:19	109
110	-70:55	-	58:30	-	60:02	-	61:35	-	63:08	-	64:40	-	66:13	110
111	-72:13	-	60:39	-	62:11	-	63:44	-	65:17	-	66:49	-	68:22	111
112	-73:29	-	63:06	-	64:38	-	66:11	-	67:44	-	69:17	-	70:49	112
113	-74:43	-	65:55	-	67:28	-	69:01	-	70:33	-	72:06	-	73:39	113
114	-75:54	-	69:13	-	70:45	-	72:18	-	73:51	-	75:23	-	76:56	114
115	-77:03	-	73:03	-	74:36	-	76:09	-	77:42	-	79:14	-	80:47	115
116	-78:08	-	77:36	-	79:09	-	80:41	-	82:14	-	83:47	-	85:20	116
117	-79:08	-	82:59	-	84:32	-	86:04	-	87:37	-	89:10	-	90:42	117
118	-80:02	-	89:21	-	90:54	-	92:27	-	94:00	-	95:32	-	97:05	118
119	-80:47	-	96:51	-	98:23	-	99:56	-	101:29	-	103:02	-	104:34	119
120	-81:22	-	105:28	-	107:01	-	108:34	-	110:07	-	111:40	-	113:12	120
121	-81:44	-	115:04	-	116:37	-	118:10	-	119:42	-	121:15	-	122:48	121
122	-81:51	-	123:15	-	124:48	-	126:21	-	127:54	-	129:27	-	131:00	122
123	-81:44	-	135:25	-	136:58	-	138:30	-	140:03	-	141:36	-	143:09	123
124	-81:22	-	145:01	-	146:34	-	148:06	-	149:39	-	151:12	-	152:45	124
125	-80:47	-	153:38	-	155:11	-	156:44	-	158:17	-	159:49	-	161:22	125
126	-80:02	-	161:08	-	162:41	-	164:13	-	165:46	-	167:19	-	168:51	126
127	-79:08	-	167:30	-	169:03	-	170:36	-	172:09	-	173:41	-	175:14	127
128	-77:03	-	172:53	-	174:26	-	175:59	-	177:31	-	179:04	-	180:37	128
129	-75:54	-	177:26	-	178:58	-	180:31	-	182:04	-	183:37	-	185:09	129
130	-74:43	-	178:43	-	179:11	-	180:39	-	182:12	-	183:45	-	185:18	130
131	-73:29	-	179:26	-	180:53	-	182:21	-	183:54	-	185:27	-	187:00	131
132	-72:13	-	180:09	-	181:04	-	182:37	-	184:10	-	185:43	-	187:16	132
133	-70:55	-	180:55	-	181:50	-	183:23	-	184:56	-	186:29	-	188:02	133
134	-69:37	-	181:40	-	182:35	-	184:08	-	185:41	-	187:14	-	188:47	134
135	-68:17	-	182:25	-	183:20	-	184:53	-	186:26	-	187:59	-	189:32	135
136	-66:57	-	183:10	-	184:05	-	185:38	-	187:11	-	188:44	-	190:17	136
137	-65:35	-	184:00	-	184:95	-	186:28	-	188:01	-	189:34	-	191:07	137
138	-64:14	-	184:50	-	185:45	-	187:18	-	188:51	-	190:24	-	191:57	138
139	-62:51	-	185:40	-	186:35	-	188:08	-	189:41	-	191:14	-	192:47	139
140	-61:29	-	186:30	-	187:25	-	188:58	-	190:31	-	192:04	-	193:37	140
141	-60:06	-	187:20	-	188:15	-	189:48	-	191:21	-	192:54	-	194:27	141
142	-58:42	-	188:10	-	189:05	-	190:38	-	192:11	-	193:44	-	195:17	142
143	-57:19	-	189:00	-	189:95	-	191:28	-	193:01	-	194:34	-	196:07	143
144	-55:55	-	189:50	-	190:45	-	192:18	-	193:51	-	195:24	-	196:57	144
145	-54:31	-	190:40	-	191:35	-	193:08	-	194:41	-	196:14	-	197:47	145
146	-53:06	-	191:30	-	192:25	-	193:98	-	195:31	-	197:04	-	198:37	146
147	-51:41	-	192:20	-	193:15	-	194:48	-	196:21	-	197:54	-	199:27	147

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FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	<	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
		211	212	213	214	215	216	217						
148	-51:42	152:36	151:04	149:31	147:58	146:25	144:53	143:20					-51:42	148
149	-50:17	151:59	150:26	148:54	147:21	145:48	144:16	142:43					-50:17	149
150	-48:52	151:24	149:51	148:18	146:45	145:13	143:40	142:08					-48:52	150
151	-47:27	150:50	149:17	147:44	146:12	144:40	143:07	141:34					-47:27	151
152	-46:02	150:18	148:45	147:13	145:40	144:07	142:34	141:02					-46:02	152
153	-44:37	149:47	148:14	146:42	145:09	143:36	142:03	140:31					-44:37	153
154	-43:11	149:17	147:44	146:12	144:39	143:06	141:34	140:01					-43:11	154
155	-41:46	148:49	147:16	145:43	144:10	142:38	141:05	139:32					-41:46	155
156	-40:20	148:21	146:48	145:15	143:43	142:10	140:37	139:05					-40:20	156
157	-38:54	147:54	146:21	144:49	143:16	141:43	140:11	138:38					-38:54	157
158	-37:29	147:28	145:55	144:23	142:50	141:17	139:45	138:12					-37:29	158
159	-36:03	147:03	145:30	143:57	142:25	140:52	139:19	137:47					-36:03	159
160	-34:37	146:38	145:06	143:33	142:00	140:27	138:55	137:22					-34:37	160
161	-33:11	146:14	144:42	143:09	141:36	140:04	138:31	136:58					-33:11	161
162	-31:45	145:51	144:18	142:46	141:13	139:40	138:07	136:35					-31:45	162
163	-30:18	145:28	143:55	142:23	140:50	139:17	137:45	136:12					-30:18	163
164	-28:52	145:06	143:33	142:00	140:27	138:55	137:22	135:50					-28:52	164
165	-27:26	144:44	143:11	141:38	140:06	138:33	137:00	135:28					-27:26	165
166	-26:00	144:22	142:50	141:17	139:44	138:12	136:39	135:06					-26:00	166
167	-24:33	144:01	142:29	140:56	139:23	137:50	136:18	134:45					-24:33	167
168	-23:07	143:40	142:08	140:35	139:02	137:30	135:57	134:24					-23:07	168
169	-21:40	143:20	141:47	140:15	138:42	137:10	135:36	134:04					-21:40	169
170	-20:14	143:00	141:27	139:54	138:22	136:49	135:16	134:43					-20:14	170
171	-18:47	142:40	141:07	139:34	138:02	136:29	134:56	133:24					-18:47	171
172	-17:21	142:20	140:47	139:15	137:42	136:10	134:37	133:04					-17:21	172
173	-15:54	142:01	140:28	138:55	137:22	135:50	134:17	132:44					-15:54	173
174	-14:27	141:41	140:09	138:36	137:03	135:30	133:58	132:25					-14:27	174
175	-13:01	141:22	139:49	138:17	136:44	135:11	133:39	132:06					-13:01	175
176	-11:34	141:03	139:30	137:58	136:25	134:52	133:20	131:47					-11:34	176
177	-10:07	140:44	139:12	137:39	136:06	134:33	133:01	131:28					-10:07	177
178	-8:41	140:26	138:53	137:20	135:47	134:15	132:42	131:10					-8:41	178
179	-7:14	140:07	138:34	137:01	135:29	133:56	132:23	130:51					-7:14	179
180	-5:47	139:48	138:16	136:43	135:10	133:38	132:05	130:32					-5:47	180
181	-4:20	139:30	137:57	136:24	134:52	133:19	131:46	130:14					-4:20	181
182	-2:54	139:11	137:39	136:06	134:33	133:01	131:28	129:55					-2:54	182
183	-1:27	138:53	137:20	135:48	134:15	132:42	131:09	129:37					-1:27	183
184	0:00	138:35	137:02	135:29	133:56	132:24	130:51	129:18					0:00	184
185	1:27	138:16	136:43	135:11	133:38	132:05	130:33	129:00					1:27	185
186	2:54	137:58	136:25	134:52	133:20	131:47	130:14	128:42					2:54	186
187	4:20	137:39	136:07	134:33	133:01	131:28	129:56	128:23					4:20	187
188	5:47	137:21	135:48	134:15	132:43	131:10	129:37	128:05					5:47	188
189	7:14	137:02	135:30	133:57	132:24	130:51	129:19	127:46					7:14	189
190	8:41	136:44	135:11	133:38	132:05	130:33	129:00	127:27					8:41	190
191	10:07	136:25	134:52	133:19	131:47	130:14	128:42	127:10					10:07	191
192	11:34	136:06	134:33	133:01	131:28	129:55	128:23	126:50					11:34	192
193	13:01	135:47	134:14	132:42	131:09	129:36	128:03	126:31					13:01	193
194	14:27	135:28	133:55	132:22	130:50	129:17	127:44	126:12					14:27	194
195	15:54	135:09	133:36	132:03	130:30	128:58	127:25	125:52					15:54	195
196	17:21	134:49	133:16	131:44	130:11	128:38	127:06	125:33					17:21	196

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ROW	LATITUDE	L	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
---	-----	---	---	---	---	---	---	---	---	-----	-----	---
197	18:47	134:29	132:57	131:24	129:51	128:19	126:46	125:13	123:40	121:17	18:47	197
198	20:14	134:09	132:37	131:04	129:31	127:59	126:26	124:53	123:20	121:47	20:14	198
199	21:40	133:49	132:16	130:44	129:11	127:38	126:05	124:32	123:00	121:27	21:40	199
200	23:07	133:29	131:56	130:23	128:51	127:18	125:45	124:12	122:40	121:07	23:07	200
201	24:33	133:08	131:35	130:03	128:30	126:57	125:24	123:51	122:19	120:46	24:33	201
202	26:00	132:47	131:14	129:41	128:09	126:36	125:03	123:30	121:58	120:25	26:00	202
203	27:26	132:25	130:53	129:20	127:47	126:14	124:42	123:09	121:36	120:04	27:26	203
204	28:52	132:03	130:31	128:58	127:25	125:53	124:20	122:47	121:15	119:42	28:52	204
205	30:18	131:41	130:08	128:36	127:03	125:30	123:57	122:24	120:51	119:18	30:18	205
206	31:45	131:18	129:45	128:13	126:40	125:07	123:34	122:01	120:28	118:55	31:45	206
207	33:11	130:55	129:22	127:49	126:17	124:44	123:11	121:38	120:05	118:32	33:11	207
208	34:37	130:31	128:58	127:25	125:53	124:20	122:47	121:15	119:42	118:09	34:37	208
209	36:03	130:06	128:34	127:01	125:29	123:56	122:23	120:50	119:17	117:44	36:03	209
210	37:29	129:41	128:08	126:36	125:03	123:30	121:58	120:25	118:52	117:19	37:29	210
211	38:54	129:15	127:42	126:10	124:37	123:04	121:32	120:00	118:27	116:54	38:54	211
212	40:20	128:48	127:16	125:43	124:10	122:37	121:05	119:32	118:00	116:27	40:20	212
213	41:46	128:21	126:48	125:15	123:42	122:10	120:37	119:05	117:32	116:00	41:46	213
214	43:11	127:52	126:19	124:46	123:14	121:41	120:08	118:35	117:03	115:30	43:11	214
215	44:37	127:22	125:49	124:16	122:44	121:11	119:39	118:06	116:34	115:01	44:37	215
216	46:02	126:51	125:18	123:46	122:13	120:40	119:08	117:35	116:03	114:30	46:02	216
217	47:27	126:19	124:46	123:14	121:41	120:08	118:35	117:03	115:30	114:00	47:27	217
218	48:52	125:45	124:13	122:40	121:07	119:34	118:02	116:30	114:57	113:24	48:52	218
219	50:17	125:10	123:37	122:05	120:32	118:59	117:26	115:54	114:22	112:49	50:17	219
220	51:42	124:33	123:00	121:27	119:55	118:22	116:50	115:17	113:44	112:12	51:42	220
221	53:06	123:54	122:11	120:48	119:16	117:43	116:10	114:38	113:05	111:32	53:06	221
222	54:31	123:12	121:40	120:07	118:34	117:02	115:29	113:56	112:24	110:51	54:31	222
223	55:55	122:29	120:56	119:23	117:51	116:18	114:45	113:12	111:40	110:07	55:55	223
224	57:19	121:42	120:09	118:37	117:04	115:31	113:58	112:26	110:53	109:20	57:19	224
225	58:42	120:52	119:19	117:47	116:14	114:41	113:08	111:36	109:63	107:90	58:42	225
226	60:06	119:59	118:26	116:53	115:21	113:48	112:15	110:43	109:10	107:37	60:06	226
227	61:29	119:01	117:28	115:56	114:23	112:50	111:18	109:45	108:12	106:40	61:29	227
228	62:51	117:59	116:26	114:53	113:21	111:48	110:15	108:43	107:10	105:37	62:51	228
229	64:14	116:51	115:18	113:45	112:13	110:40	109:07	107:34	106:02	104:29	64:14	229
230	65:35	115:36	114:04	112:31	110:58	109:26	107:53	106:20	104:48	103:15	65:35	230
231	66:57	114:14	112:42	111:09	109:36	108:04	106:31	104:58	103:26	101:53	66:57	231
232	68:17	112:44	111:11	109:38	108:06	106:33	105:00	103:28	101:55	100:22	68:17	232
233	69:37	111:03	109:30	107:57	106:24	104:52	103:19	101:46	100:14	98:41	69:37	233
234	70:55	109:09	107:36	106:03	104:31	102:58	101:25	99:53	98:20	96:47	70:55	234
235	72:13	107:00	105:27	103:54	102:22	100:49	99:16	97:44	96:11	94:38	72:13	235
236	73:29	104:33	103:00	101:27	99:55	98:22	96:49	95:16	93:44	92:11	73:29	236
237	74:43	101:43	100:10	98:38	97:05	95:32	93:59	92:27	90:54	89:21	74:43	237
238	75:54	98:26	96:53	95:20	93:48	92:15	90:42	89:10	87:37	86:04	75:54	238
239	77:03	94:35	93:02	91:29	89:57	88:24	86:51	85:19	83:46	82:13	77:03	239
240	78:08	90:02	88:30	86:57	85:24	83:52	82:19	80:46	79:14	77:41	78:08	240
241	79:08	84:39	83:07	81:34	79:61	78:29	76:56	75:23	73:51	72:18	79:08	241
242	80:02	78:17	76:44	75:12	73:39	72:06	70:33	69:01	67:28	65:55	80:02	242
243	80:47	70:48	69:15	67:42	66:10	64:37	63:04	61:31	59:59	58:26	80:47	243
244	81:22	62:10	60:37	59:05	57:32	55:59	54:27	52:54	51:22	49:49	81:22	244
245	81:44	52:34	51:01	49:29	47:56	46:23	44:51	43:18	41:46	40:13	81:44	245

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
---	-----	----	---	---	---	---	---	---	---	---	---	-----	-----	---
			211	212	212	213	214	215	216	217				
246	81:51	42:24		40:51	39:18	37:46	36:13	34:40	33:08	31:51			81:51	246
247	81:44	32:13		30:41	29:08	27:35	26:02	24:30	23:07	21:44			81:44	247
248	81:22	22:37		21:05	19:32	17:59	16:27	14:54	13:21	11:51			81:22	248

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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
001	80:47		218	219	220	221	222	223	224				80:47	001
002	80:02		20:25	19:52	18:19	15:47	14:14	12:41	11:09	9:36	8:04	6:31	80:02	002
003	79:08		14:02	13:30	12:57	12:24	11:52	11:20	10:47	10:15	9:43	9:11	79:08	003
004	78:08		8:39	7:07	5:34	4:01	2:29	0:56	0:24	0:52	1:20	1:48	78:08	004
005	77:03		4:07	2:34	1:02	0:30	0:58	1:26	1:54	2:22	2:50	3:18	77:03	005
006	75:54		0:16	1:17	2:19	3:21	4:23	5:25	6:27	7:29	8:31	9:33	75:54	006
007	74:43		3:01	4:34	6:07	7:39	9:12	10:45	12:17	13:50	15:23	16:56	74:43	007
008	73:29		5:51	7:24	8:57	10:29	12:02	13:34	15:07	16:40	18:13	19:46	73:29	008
009	72:13		8:18	9:51	11:23	12:56	14:29	16:02	17:35	19:08	20:41	22:14	72:13	009
010	70:55		10:27	12:00	13:32	15:05	16:38	18:11	19:44	21:17	22:50	24:23	70:55	010
011	69:37		12:21	13:53	15:26	16:59	18:32	20:04	21:37	23:10	24:43	26:16	69:37	011
012	68:17		14:02	15:35	17:07	18:40	20:13	21:46	23:19	24:52	26:25	27:58	68:17	012
013	66:57		15:33	17:05	18:38	20:11	21:44	23:17	24:50	26:23	27:56	29:29	66:57	013
014	65:35		16:55	18:27	19:59	21:32	23:05	24:38	26:11	27:44	29:17	30:50	65:35	014
015	64:14		18:06	19:38	21:11	22:44	24:17	25:50	27:23	28:56	30:29	32:02	64:14	015
016	62:51		19:17	20:49	22:22	23:55	25:28	27:01	28:34	30:07	31:40	33:13	62:51	016
017	61:29		20:19	21:52	23:25	24:58	26:31	28:04	29:37	31:10	32:43	34:16	61:29	017
018	60:06		21:17	22:50	24:22	25:55	27:28	29:01	30:34	32:07	33:40	35:13	60:06	018
019	58:42		22:10	23:43	25:16	26:49	28:22	29:55	31:28	33:01	34:34	36:07	58:42	019
020	57:19		23:00	24:33	26:06	27:39	29:12	30:45	32:18	33:51	35:24	36:57	57:19	020
021	55:55		23:47	25:20	26:52	28:25	29:58	31:31	33:04	34:37	36:10	37:43	55:55	021
022	54:31		24:31	26:03	27:36	29:09	30:42	32:15	33:48	35:21	36:54	38:27	54:31	022
023	53:06		25:12	26:45	28:17	29:50	31:23	32:56	34:29	36:02	37:35	39:08	53:06	023
024	51:42		25:51	27:24	28:56	30:29	32:02	33:35	35:08	36:41	38:14	39:47	51:42	024
025	50:17		26:28	28:01	29:34	31:07	32:40	34:13	35:46	37:19	38:52	40:25	50:17	025
026	48:52		27:03	28:36	30:09	31:42	33:15	34:48	36:21	37:54	39:27	41:00	48:52	026
027	47:27		27:37	29:10	30:43	32:16	33:49	35:22	36:55	38:28	40:01	41:34	47:27	027
028	46:02		28:09	29:42	31:15	32:48	34:21	35:54	37:27	39:00	40:33	42:06	46:02	028
029	44:37		28:40	30:13	31:46	33:19	34:52	36:25	37:58	39:31	41:04	42:37	44:37	029
030	43:11		29:10	30:43	32:16	33:49	35:22	36:55	38:28	40:01	41:34	43:07	43:11	030
031	41:46		29:39	31:11	32:44	34:17	35:50	37:23	38:56	40:29	42:02	43:35	41:46	031
032	40:20		30:06	31:39	33:12	34:45	36:18	37:51	39:24	40:57	42:30	44:03	40:20	032
033	38:54		30:33	32:06	33:39	35:12	36:45	38:18	39:51	41:24	42:57	44:30	38:54	033
034	37:29		30:59	32:32	34:05	35:38	37:11	38:44	40:17	41:50	43:23	44:56	37:29	034
035	36:03		31:24	32:57	34:30	36:03	37:36	39:09	40:42	42:15	43:48	45:21	36:03	035
036	34:37		31:49	33:22	34:55	36:28	38:01	39:34	41:07	42:40	44:13	45:46	34:37	036
037	33:11		32:13	33:46	35:19	36:52	38:25	39:58	41:31	43:04	44:37	46:10	33:11	037
038	31:45		32:36	34:09	35:42	37:15	38:48	40:21	41:54	43:27	45:00	46:33	31:45	038
039	30:18		32:59	34:32	36:05	37:38	39:11	40:44	42:17	43:50	45:23	46:56	30:18	039
040	28:52		33:22	34:55	36:28	38:01	39:34	41:07	42:40	44:13	45:46	47:19	28:52	040
041	27:26		33:43	35:16	36:49	38:22	39:55	41:28	43:01	44:34	46:07	47:40	27:26	041
042	26:00		34:05	35:38	37:11	38:44	40:17	41:50	43:23	44:56	46:29	48:02	26:00	042
043	24:33		34:26	35:59	37:31	39:04	40:37	42:10	43:43	45:16	46:49	48:22	24:33	043
044	23:07		34:47	36:20	37:52	39:25	40:58	42:31	44:04	45:37	47:10	48:43	23:07	044
045	21:40		35:07	36:40	38:13	39:46	41:19	42:52	44:25	45:58	47:31	49:04	21:40	045
046	20:14		35:28	37:00	38:33	40:06	41:39	43:12	44:45	46:18	47:51	49:24	20:14	046
047	18:47		35:49	37:20	38:53	40:26	41:59	43:32	45:05	46:38	48:11	49:44	18:47	047
048	17:21		36:07	37:40	39:13	40:46	42:19	43:52	45:25	46:58	48:31	49:54	17:21	048
049	15:54		36:27	37:59	39:32	41:05	42:38	44:11	45:44	47:17	48:50	50:23	15:54	049

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050	14127	-	36146	-	38119	-	39151	-	41124	-	42157	-	44130	-	46102	050
051	13101	-	37105	-	38138	-	40111	-	41143	-	43116	-	44149	-	46121	051
052	11134	-	37124	-	38157	-	40130	-	42102	-	43135	-	45108	-	46140	052
053	10107	-	37143	-	39116	-	40148	-	42121	-	43154	-	45127	-	46159	053
054	8141	-	38102	-	39134	-	41107	-	42140	-	44113	-	45145	-	47118	054
055	7114	-	38120	-	39153	-	41126	-	42159	-	44131	-	46104	-	47137	055
056	5147	-	38139	-	40112	-	41144	-	43117	-	44150	-	46122	-	47155	056
057	4120	-	38157	-	40130	-	42103	-	43136	-	45108	-	46141	-	48114	057
058	2154	-	39116	-	40149	-	42121	-	43154	-	45127	-	46159	-	48132	058
059	1127	-	39134	-	41107	-	42140	-	44112	-	45145	-	47118	-	48151	059
060	0100	-	39153	-	41125	-	42158	-	44131	-	46104	-	47136	-	49109	060
061	-1127	-	40111	-	41144	-	43117	-	44149	-	46122	-	47155	-	49127	061
062	-2154	-	40130	-	42102	-	43135	-	45108	-	46150	-	48113	-	49146	062
063	-4120	-	40148	-	42121	-	43153	-	45126	-	46159	-	48132	-	50104	063
064	-5147	-	41107	-	42139	-	44112	-	45145	-	47117	-	48150	-	50123	064
065	-7114	-	41125	-	42158	-	44130	-	46103	-	47136	-	49109	-	50141	065
066	-8141	-	41144	-	43116	-	44149	-	46122	-	47155	-	49127	-	51100	066
067	-10107	-	42102	-	43135	-	45108	-	46141	-	48113	-	49146	-	51119	067
068	-11134	-	42121	-	43154	-	45127	-	46159	-	48132	-	50104	-	51138	068
069	-13101	-	42140	-	44113	-	45146	-	47118	-	48151	-	50124	-	51157	069
070	-14127	-	42159	-	44132	-	46105	-	47138	-	49110	-	50143	-	52116	070
071	-15154	-	43119	-	44151	-	46124	-	47157	-	49130	-	51102	-	52135	071
072	-17121	-	43138	-	45111	-	46144	-	48116	-	49149	-	51122	-	52154	072
073	-18147	-	43158	-	45131	-	47103	-	48135	-	50109	-	51141	-	53114	073
074	-20114	-	44118	-	46151	-	47123	-	48156	-	50129	-	52101	-	53134	074
075	-21140	-	44138	-	46111	-	47144	-	49115	-	50149	-	52122	-	53154	075
076	-23107	-	44159	-	46131	-	48104	-	49137	-	51109	-	52142	-	54115	076
077	-24133	-	45119	-	46152	-	48125	-	49157	-	51130	-	53103	-	54136	077
078	-26100	-	45141	-	47113	-	48146	-	50119	-	51151	-	53124	-	54157	078
079	-27126	-	46102	-	47135	-	49107	-	50140	-	52113	-	53146	-	55118	079
080	-28152	-	46124	-	47157	-	49129	-	51102	-	52135	-	54107	-	55140	080
081	-30118	-	46146	-	48119	-	49152	-	51124	-	52137	-	54130	-	56103	081
082	-31145	-	47109	-	48137	-	50115	-	51147	-	53120	-	54153	-	56125	082
083	-33111	-	47132	-	49105	-	50138	-	52111	-	53143	-	55116	-	56149	083
084	-34137	-	47156	-	49129	-	51102	-	52138	-	54107	-	55140	-	57113	084
085	-36103	-	48121	-	49154	-	51126	-	52159	-	54137	-	56103	-	57137	085
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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
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PATH/ROW TO LATITUDE/LONGITUDE
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ROW	LATITUDE	PATH:	L	O	M	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
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149	-50:17	141:10	139:38	138:05	136:32	134:59	133:27	131:54					-50:17	149
150	-48:52	140:35	139:02	137:30	135:57	134:24	132:51	131:19					-48:52	150
151	-47:27	140:10	138:29	136:56	135:23	133:50	132:18	130:45					-47:27	151
152	-46:02	139:29	137:56	136:24	134:51	133:18	131:46	129:13					-46:02	152
153	-44:37	138:58	137:25	135:53	134:20	132:47	131:15	129:42					-44:37	153
154	-43:11	138:28	136:56	135:23	133:50	132:17	130:45	129:12					-43:11	154
155	-41:46	138:00	136:27	134:54	133:22	131:49	129:18	128:43					-41:46	155
156	-40:20	137:32	135:59	134:27	132:54	131:21	129:48	128:16					-40:20	156
157	-38:54	137:05	135:32	134:00	132:27	130:54	129:22	127:49					-38:54	157
158	-37:29	136:39	134:06	132:34	131:01	130:28	128:56	127:23					-37:29	158
159	-36:03	136:13	133:41	132:08	130:36	130:03	128:30	126:57					-36:03	159
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161	-33:11	135:25	132:53	131:20	129:47	129:15	127:42	126:09					-33:11	161
162	-31:45	135:02	132:30	130:57	129:24	128:51	127:19	125:46					-31:45	162
163	-30:18	134:39	132:06	130:33	129:00	128:28	126:55	125:23					-30:18	163
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165	-27:26	133:55	131:22	129:50	128:17	127:44	126:11	124:39					-27:26	165
166	-26:00	133:33	131:01	129:28	128:55	128:23	126:50	125:17					-26:00	166
167	-24:33	133:12	130:40	129:07	128:34	128:01	126:29	124:56					-24:33	167
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PATH/ROW TO LATITUDE/LONGITUDE
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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
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237	74:43	90:54	89:21	87:49	86:16	84:43	80:27	100:19	237	74:43				
238	75:54	87:37	86:04	84:32	82:59	81:26	77:09	100:19	238	75:54				
239	77:03	83:46	82:13	80:13	78:35	76:57	72:30	100:19	239	77:03				
240	78:08	79:13	77:41	76:08	74:35	72:57	68:30	100:19	240	78:08				
241	79:08	75:50	74:18	72:18	70:45	69:12	64:48	100:19	241	79:08				
242	80:02	72:28	70:55	69:12	67:40	66:07	61:42	100:19	242	80:02				
243	80:47	69:59	68:26	66:53	65:21	63:48	59:12	100:19	243	80:47				
244	81:22	67:11	65:38	64:05	62:33	60:59	56:12	100:19	244	81:22				
245	81:44	64:45	62:43	61:10	59:37	57:64	52:79	100:19	245	81:44				

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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
246	81:51		31:35		30:02		28:29		26:57		25:24	23:51	81:51	246
247	81:44		21:24		19:52		18:19		16:46		15:14	13:41	81:44	247
248	81:22		11:48		10:16		8:43		7:10		5:38	4:05	81:22	248

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PATH/ROW TO LATITUDE/LONGITUDE
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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
---	-----	----	---	---	---	---	---	---	---	---	---	-----	-----	---
001	80147	17105	15133	14100	12127	10154	9122	8122	7159	60147	001	001	80147	001
002	80102	9136	8103	6131	4158	3125	1152	0120	0120	80102	002	002	80102	002
003	79108	3113	141	0108	1425	2157	4130	6103	6103	79108	003	003	79108	003
004	78108	2109	3142	5115	6148	8120	9153	11126	11126	78108	004	004	78108	004
005	77103	10133	8115	9147	11120	12153	13126	14126	15158	77103	005	005	77103	005
006	75154	13150	12106	13138	15111	16144	18116	18116	19149	75154	006	006	75154	006
007	74143	13150	15123	16155	18128	20101	21134	21134	23106	74143	007	007	74143	007
008	73129	16140	18112	19145	21110	22151	24123	24123	25153	73129	008	008	73129	008
009	72113	19107	20140	22112	23145	25118	26150	26150	28123	72113	009	009	72113	009
010	70155	21116	22149	24121	25154	27127	28159	28159	30132	70155	010	010	70155	010
011	69137	23110	24142	26115	27148	29120	30153	30153	32126	69137	011	011	69137	011
012	68117	24151	26124	27156	29129	31102	32134	32134	34107	68117	012	012	68117	012
013	66157	25122	27154	29127	31100	32132	34105	34105	35138	66157	013	013	66157	013
014	65135	27143	29116	30149	32122	33154	35127	35127	37100	65135	014	014	65135	014
015	64114	28158	30131	32103	33136	35109	36141	36141	38114	64114	015	015	64114	015
016	62151	30106	31138	33111	34144	36117	37149	37149	39122	62151	016	016	62151	016
017	61129	31108	32141	34114	35146	37119	38152	38152	40124	61129	017	017	61129	017
018	60106	32106	33138	35111	36144	38117	39149	39149	41122	60106	018	018	60106	018
019	58142	33149	34132	36105	37137	39110	40143	40143	42115	58142	019	019	58142	019
020	57119	34136	35122	36154	38127	40100	41133	41133	43105	57119	020	020	57119	020
021	55155	35120	36108	37141	39114	40147	42119	42119	43152	55155	021	021	55155	021
022	54131	36101	37152	38125	39158	41130	43103	43103	44136	54131	022	022	54131	022
023	53106	37117	38113	39106	40139	42112	43144	43144	45117	53106	023	023	53106	023
024	51142	38140	39113	39145	41118	42151	44123	44123	45156	51142	024	024	51142	024
025	50117	39152	39150	40132	41155	43128	45101	45101	46133	50117	025	025	50117	025
026	48152	37152	39125	40158	42130	44103	45136	45136	47109	48152	026	026	48152	026
027	47127	38126	39159	41131	43104	44137	46110	46110	47142	47127	027	027	47127	027
028	46102	38158	40131	42104	43126	45109	46142	46142	48114	46102	028	028	46102	028
029	44137	39129	41102	42135	43107	45140	47113	47113	48145	44137	029	029	44137	029
030	43111	39159	41132	43104	44137	46110	47142	47142	49115	43111	030	030	43111	030
031	41146	40128	42100	44101	45106	47138	49111	49111	50136	41146	031	031	41146	031
032	40120	40155	42128	44128	45133	47106	48139	48139	50112	40120	032	032	40120	032
033	38154	41122	43121	45124	46130	48124	49106	49106	50136	38154	033	033	38154	033
034	37129	41148	43121	45119	46136	48124	49132	49132	51104	37129	034	034	37129	034
035	36103	42113	44146	46121	47138	49111	50121	50121	51130	36103	035	035	36103	035
036	34137	42138	44135	46107	47140	49113	50135	50135	52118	34137	036	036	34137	036
037	33111	43102	45125	46131	48103	49136	51109	51109	52141	33111	037	037	33111	037
038	31145	43125	45148	46154	48126	49159	51132	51132	53104	31145	038	038	31145	038
039	30118	43148	45121	47115	48149	50121	51154	51154	53127	30118	039	039	30118	039
040	28152	44110	46105	47138	48110	50143	52116	52116	54149	28152	040	040	28152	040
041	27126	44132	46127	47159	49132	51105	52137	52137	54149	27126	041	041	27126	041
042	26100	44154	46148	48120	49153	51126	52159	52159	54131	26100	042	042	26100	042
043	24133	45115	47109	48141	50114	51147	53119	53119	54152	24133	043	043	24133	043
044	23107	45136	47129	49142	50134	52107	53140	53140	55113	23107	044	044	23107	044
045	21140	45156	47109	49122	50134	52127	53155	53155	55133	21140	045	045	21140	045
046	20114	46117	47149	49122	50134	52127	53155	53155	55133	20114	046	046	20114	046
047	18147	46136	48109	49142	50134	52147	53155	53155	55133	18147	047	047	18147	047
048	17121	46156	48129	50102	51134	53107	54140	54140	56112	17121	048	048	17121	048
049	15154	47116	48148	50121	51154	53126	54159	54159	56132	15154	049	049	15154	049

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ROW	LATITUDE	PATH:	225	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	229	230	231	LATITUDE	ROW
050	14:27	-	47:35	-	49:08	-	50:40	-	52:13	-	53:46	-	55:18	-	56:51	-	14:27	050
051	13:01	-	47:54	-	49:27	-	50:59	-	52:32	-	54:05	-	55:38	-	57:10	-	13:01	051
052	11:34	-	48:13	-	49:46	-	51:18	-	52:51	-	54:24	-	55:57	-	57:29	-	11:34	052
053	10:07	-	48:32	-	50:05	-	51:37	-	53:10	-	54:43	-	56:15	-	57:48	-	10:07	053
054	8:41	-	48:51	-	50:23	-	51:56	-	53:29	-	55:01	-	56:34	-	58:07	-	8:41	054
055	7:14	-	49:09	-	50:42	-	52:15	-	53:48	-	55:20	-	56:53	-	58:26	-	7:14	055
056	5:47	-	49:28	-	51:01	-	52:33	-	54:06	-	55:39	-	57:11	-	58:44	-	5:47	056
057	4:20	-	49:46	-	51:19	-	52:52	-	54:24	-	55:57	-	57:30	-	59:03	-	4:20	057
058	2:54	-	50:05	-	51:38	-	53:10	-	54:43	-	56:15	-	57:48	-	59:21	-	2:54	058
059	1:27	-	50:23	-	51:56	-	53:29	-	55:01	-	56:34	-	58:07	-	59:40	-	1:27	059
060	0:00	-	50:42	-	52:14	-	53:47	-	55:20	-	56:53	-	58:26	-	59:59	-	0:00	060
061	-1:27	-	51:00	-	52:33	-	54:05	-	55:38	-	57:11	-	58:44	-	60:16	-	-1:27	061
062	-2:54	-	51:18	-	52:51	-	54:24	-	55:57	-	57:29	-	59:02	-	60:35	-	-2:54	062
063	-4:20	-	51:37	-	53:10	-	54:43	-	56:15	-	57:48	-	59:21	-	60:54	-	-4:20	063
064	-5:47	-	51:55	-	53:28	-	55:01	-	56:34	-	58:07	-	59:40	-	61:12	-	-5:47	064
065	-7:14	-	52:13	-	53:47	-	55:19	-	56:52	-	58:25	-	59:58	-	61:30	-	-7:14	065
066	-8:41	-	52:33	-	54:05	-	55:38	-	57:11	-	58:44	-	60:16	-	61:49	-	-8:41	066
067	-10:07	-	52:51	-	54:24	-	55:57	-	57:29	-	59:02	-	60:35	-	62:08	-	-10:07	067
068	-11:34	-	53:10	-	54:43	-	56:16	-	57:48	-	59:21	-	60:54	-	62:26	-	-11:34	068
069	-13:01	-	53:29	-	55:02	-	56:35	-	58:07	-	59:40	-	61:12	-	62:45	-	-13:01	069
070	-14:27	-	53:48	-	55:21	-	56:54	-	58:26	-	59:59	-	61:32	-	63:05	-	-14:27	070
071	-15:54	-	54:08	-	55:40	-	57:13	-	58:46	-	60:18	-	61:51	-	63:24	-	-15:54	071
072	-17:21	-	54:27	-	56:00	-	57:33	-	59:05	-	60:38	-	62:11	-	63:43	-	-17:21	072
073	-18:47	-	54:47	-	56:20	-	57:52	-	59:25	-	60:58	-	62:30	-	64:03	-	-18:47	073
074	-20:14	-	55:07	-	56:40	-	58:12	-	59:45	-	61:18	-	62:50	-	64:23	-	-20:14	074
075	-21:40	-	55:27	-	57:00	-	58:32	-	60:05	-	61:38	-	63:11	-	64:43	-	-21:40	075
076	-23:07	-	55:48	-	57:20	-</												

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PATH/ROW TO LATITUDE/LONGITUDE
FOR ADJACENT PATHS ON EARTH

ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	229	230	231	LATITUDE	ROW
099	-55:55		66:48	-68:20	-69:53	-71:26	-72:58	-74:31	-76:04	-77:36	-79:08	-80:40	-82:12	-83:44	-85:16	-55:55	099
100	-57:19		67:34	-69:07	-70:40	-72:12	-73:45	-75:18	-76:50	-78:22	-79:54	-81:26	-82:58	-84:30	-86:02	-57:19	100
101	-58:42		68:24	-69:57	-71:29	-73:02	-74:35	-76:08	-77:40	-79:12	-80:44	-82:16	-83:48	-85:20	-86:52	-58:42	101
102	-60:16		69:18	-70:51	-72:23	-73:56	-75:28	-77:01	-78:33	-80:05	-81:37	-83:09	-84:41	-86:13	-87:45	-60:16	102
103	-61:29		70:15	-71:48	-73:21	-74:53	-76:26	-77:59	-79:31	-81:03	-82:35	-84:07	-85:39	-87:11	-88:43	-61:29	103
104	-62:51		71:18	-72:50	-74:23	-75:56	-77:28	-79:01	-80:33	-82:05	-83:37	-85:09	-86:41	-88:13	-89:45	-62:51	104
105	-64:14		72:26	-73:58	-75:31	-77:03	-78:35	-80:07	-81:39	-83:11	-84:43	-86:15	-87:47	-89:19	-90:51	-64:14	105
106	-65:35		73:40	-75:13	-76:45	-78:18	-79:50	-81:22	-82:54	-84:26	-85:58	-87:30	-89:02	-90:34	-92:06	-65:35	106
107	-66:57		75:02	-76:34	-78:07	-79:39	-81:11	-82:43	-84:15	-85:47	-87:19	-88:51	-90:23	-91:55	-93:27	-66:57	107
108	-68:17		76:32	-78:04	-79:36	-81:08	-82:40	-84:12	-85:44	-87:16	-88:48	-90:20	-91:52	-93:24	-94:56	-68:17	108
109	-69:37		78:14	-79:46	-81:18	-82:50	-84:22	-85:54	-87:26	-88:58	-90:30	-92:02	-93:34	-95:06	-96:38	-69:37	109
110	-70:55		80:07	-81:40	-83:12	-84:44	-86:16	-87:48	-89:20	-90:52	-92:24	-93:56	-95:28	-97:00	-98:32	-70:55	110
111	-72:13		82:16	-83:49	-85:21	-86:53	-88:25	-89:57	-91:29	-93:01	-94:33	-96:05	-97:37	-99:09	-100:41	-72:13	111
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114	-75:54		90:50	-92:22	-93:54	-95:26	-96:58	-98:30	-100:02	-101:34	-103:06	-104:38	-106:10	-107:42	-109:14	-75:54	114
115	-77:03		94:41	-96:13	-97:45	-99:17	-100:49	-102:21	-103:53	-105:25	-106:57	-108:29	-109:61	-111:33	-113:05	-77:03	115
116	-78:08		99:14	-100:46	-102:18	-103:50	-105:22	-106:54	-108:26	-109:58	-111:30	-113:02	-114:34	-116:06	-117:38	-78:08	116
117	-79:08		104:37	-106:09	-107:41	-109:13	-110:45	-112:17	-113:49	-115:21	-116:53	-118:25	-119:57	-121:29	-123:01	-79:08	117
118	-80:02		110:59	-112:31	-114:03	-115:35	-117:07	-118:39	-120:11	-121:43	-123:15	-124:47	-126:19	-127:51	-129:23	-80:02	118
119	-81:42		127:06	-128:38	-130:10	-131:42	-133:14	-134:46	-136:18	-137:50	-139:22	-140:54	-142:26	-143:58	-145:30	-81:42	119
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122	-81:51		157:03	-158:35	-160:07	-161:39	-163:11	-164:43	-166:15	-167:47	-169:19	-170:51	-172:23	-173:55	-175:27	-81:51	122
123	-81:44		166:19	-167:51	-169:23	-170:55	-172:27	-173:59	-175:31	-177:03	-178:35	-180:07	-181:39	-183:11	-184:43	-81:44	123
124	-81:22		166:19	-167:51	-169:23	-170:55	-172:27	-173:59	-175:31	-177:03	-178:35	-180:07	-181:39	-183:11	-184:43	-81:22	124
125	-80:47		175:16	-176:48	-178:20	-179:52	-181:24	-182:56	-184:28	-186:00	-187:32	-189:04	-190:36	-192:08	-193:40	-80:47	125
126	-80:02		177:14	-178:46	-180:18	-181:50	-183:22	-184:54	-186:26	-187:58	-189:30	-191:02	-192:34	-194:06	-195:38	-80:02	126
127	-79:08		170:52	-172:24	-173:56	-175:28	-176:60	-177:92	-179:24	-180:56	-182:28	-184:00	-185:32	-187:04	-188:36	-79:08	127
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129	-77:03		160:56	-162:28	-163:60	-164:92	-166:24	-167:56	-169:28	-170:60	-171:92	-173:24	-174:56	-176:28	-178:00	-77:03	129
130	-75:54		157:03	-158:35	-159:67	-160:99	-162:31	-163:63	-164:95	-166:27	-167:59	-169:31	-171:03	-172:35	-174:07	-75:54	130
131	-74:43		153:48	-155:20	-156:52	-158:24	-159:56	-161:28	-163:00	-164:32	-166:04	-167:36	-169:08	-170:40	-172:12	-74:43	131
132	-73:29		150:59	-152:31	-154:03	-155:35	-156:67	-157:99	-159:31	-160:63	-161:95	-163:27	-164:59	-166:31	-168:03	-73:29	132
133	-72:13		148:31	-150:03	-151:35	-152:67	-153:99	-155:31	-156:63	-157:95	-159:27	-160:59	-162:31	-164:03	-165:35	-72:13	133
134	-70:55		146:23	-147:95	-149:27	-150:59	-152:31	-153:63	-154:95	-156:27	-157:59	-159:31	-161:03	-162:35	-164:07	-70:55	134
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136	-68:17		142:48	-144:20	-145:52	-147:24	-148:56	-150:28	-151:60	-152:92	-154:24	-155:56	-157:28	-158:60	-160:00	-68:17	136
137	-66:57		141:17	-142:49	-144:21	-145:53	-147:25	-148:57	-150:29	-151:61	-152:93	-154:25	-155:57	-157:29	-158:61	-66:57	137
138	-65:35		139:55	-141:27	-142:59	-144:31	-146:03	-147:35	-148:67	-150:00	-151:32	-152:64	-153:96	-155:28	-156:60	-65:35	138
139	-64:14		138:41	-140:13	-141:45	-143:17	-144:49	-146:21	-147:53	-149:25	-150:57	-152:29	-154:01	-155:33	-156:65	-64:14	139
140	-62:51		137:33	-139:05	-140:37	-141:69	-143:01	-144:33	-145:65	-146:97	-148:29	-149:61	-150:93	-152:25	-153:57	-62:51	140
141	-61:29		136:20	-137:52	-139:24	-140:56	-142:28	-143:60	-144:92	-146:24	-147:56	-149:28	-150:60	-151:92	-153:24	-61:29	141
142	-60:06		135:13	-136:45	-138:17	-139:49	-141:21	-142:53	-144:25	-145:57	-147:29	-149:01	-150:33	-151:65	-152:97	-60:06	142
143	-58:42		134:06	-135:38	-136:70	-138:02	-139:34	-140:66	-141:98	-143:30	-144:62	-145:94	-147:26	-148:58	-150:30	-58:42	143
144	-57:19		133:49	-134:81	-136:13	-137:45	-138:77	-140:09	-141:41	-142:73	-144:05	-145:37	-146:69	-148:01	-149:33	-57:19	144
145	-55:55		133:03	-134:35	-135:67	-136:99	-138:31	-139:63	-140:95	-142:27	-143:59	-145:31	-146:63	-147:95	-149:27	-55:55	145
146	-54:31		132:19	-133:51	-135:23	-136:55	-138:27	-139:59	-141:31	-142:63	-143:95	-145:27	-146:59	-148:31	-149:63	-54:31	146
147	-53:06		131:38	-133:10	-134:42	-135:74	-137:06	-138:38	-139:70	-141:02	-142:34	-143:66	-144:98	-146:30	-147:62	-53:06	147

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ROW	LATITUDE	PATH:	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	ROW
148	-51:42	130:58	225	225	226	227	227	229	229	230	231	148	
149	-50:17	130:21	129:26	127:53	126:10	125:48	124:48	123:15	121:12	121:12	121:12	149	
150	-48:52	129:46	128:49	127:16	125:43	125:11	124:11	122:38	121:05	121:05	121:05	150	
151	-47:27	129:12	128:13	126:41	125:08	124:34	123:34	122:01	120:30	120:30	120:30	151	
152	-46:02	128:40	127:07	125:35	124:02	123:29	122:29	120:56	119:24	119:24	119:24	152	
153	-44:37	128:09	126:36	125:04	123:31	122:58	121:58	119:55	118:23	118:23	118:23	153	
154	-43:11	127:39	126:07	124:34	123:01	122:28	121:28	119:25	117:53	117:53	117:53	154	
155	-41:46	127:11	125:38	124:05	122:33	121:50	120:50	118:47	117:15	117:15	117:15	155	
156	-40:20	126:43	125:10	123:38	122:05	121:32	120:32	118:29	116:57	116:57	116:57	156	
157	-38:54	126:16	124:44	123:11	121:38	120:05	119:39	118:07	116:34	116:34	116:34	157	
158	-37:29	125:50	124:18	122:45	121:12	119:39	118:14	116:41	115:09	115:09	115:09	158	
159	-36:03	125:25	123:52	122:18	120:45	119:12	117:39	116:07	114:34	114:34	114:34	159	
160	-34:37	125:00	123:28	121:55	120:23	118:50	117:17	115:44	114:12	114:12	114:12	160	
161	-33:11	124:36	123:04	121:31	119:58	118:25	116:52	115:20	113:47	113:47	113:47	161	
162	-31:45	124:13	122:40	121:08	119:35	118:02	116:29	114:56	113:23	113:23	113:23	162	
163	-30:18	123:50	122:18	120:45	119:12	117:39	116:07	114:34	113:01	113:01	113:01	163	
164	-28:52	123:28	121:55	120:23	118:50	117:17	115:44	114:12	112:39	112:39	112:39	164	
165	-27:26	123:06	121:33	120:09	118:37	116:64	114:91	113:18	111:45	111:45	111:45	165	
166	-26:00	122:44	121:12	119:39	118:06	116:34	114:61	112:88	111:15	111:15	111:15	166	
167	-24:33	122:23	120:51	119:18	117:45	116:13	114:40	113:07	111:34	111:34	111:34	167	
168	-23:07	122:03	120:30	118:57	117:24	115:52	114:20	112:46	111:13	111:13	111:13	168	
169	-21:40	121:42	120:09	118:37	116:64	114:91	113:18	111:45	110:12	110:12	110:12	169	
170	-20:14	121:22	119:49	118:16	116:44	115:11	113:38	112:06	110:33	110:33	110:33	170	
171	-18:47	121:02	119:29	117:57	116:24	114:51	113:18	111:45	110:12	110:12	110:12	171	
172	-17:21	120:42	119:10	117:37	116:04	114:31	112:58	111:25	109:52	109:52	109:52	172	
173	-15:54	120:23	118:50	117:17	115:44	114:12	112:39	111:06	109:33	109:33	109:33	173	
174	-14:27	120:03	118:31	116:58	115:25	113:53	112:20	110:47	109:14	109:14	109:14	174	
175	-13:01	119:44	118:12	116:39	115:06	113:34	112:01	110:28	108:55	108:55	108:55	175	
176	-11:34	119:25	117:53	116:20	114:47	113:14	111:41	110:09	108:36	108:36	108:36	176	
177	-10:07	119:06	117:34	116:01	114:28	112:56	111:23	109:50	108:17	108:17	108:17	177	
178	-8:41	118:48	117:15	115:42	114:10	112:37	111:04	109:32	107:59	107:59	107:59	178	
179	-7:14	118:29	116:56	115:24	113:51	112:18	110:46	109:13	107:40	107:40	107:40	179	
180	-5:47	118:10	116:38	115:05	113:32	112:00	110:27	108:54	107:21	107:21	107:21	180	
181	-4:20	117:52	116:19	114:47	113:14	111:41	110:08	108:35	107:02	107:02	107:02	181	
182	-2:54	117:34	116:01	114:28	112:55	111:23	109:50	108:17	106:44	106:44	106:44	182	
183	-1:27	117:15	115:42	114:10	112:37	111:04	109:32	107:59	106:26	106:26	106:26	183	
184	0:00	116:57	115:24	113:51	112:19	110:46	109:13	107:40	106:07	106:07	106:07	184	
185	1:27	116:38	115:06	113:33	112:00	110:27	108:54	107:21	105:48	105:48	105:48	185	
186	2:54	116:20	114:47	113:14	111:42	110:09	108:36	107:02	105:29	105:29	105:29	186	
187	4:20	116:01	114:29	112:56	111:23	109:50	108:17	106:44	105:11	105:11	105:11	187	
188	5:47	115:43	114:10	112:38	111:05	109:32	107:59	106:26	104:53	104:53	104:53	188	
189	7:14	115:24	113:52	112:19	110:46	109:13	107:40	106:07	104:34	104:34	104:34	189	
190	8:41	115:06	113:33	112:00	110:28	108:55	107:22	105:59	104:26	104:26	104:26	190	
191	10:07	114:47	113:14	111:42	110:09	108:36	107:02	105:29	103:56	103:56	103:56	191	
192	11:34	114:28	112:55	111:23	109:50	108:17	106:44	105:11	103:38	103:38	103:38	192	
193	13:01	114:09	112:36	111:04	109:33	107:58	106:26	104:53	103:20	103:20	103:20	193	
194	14:27	113:50	112:17	110:45	109:12	107:39	106:07	104:34	103:01	103:01	103:01	194	
195	15:54	113:31	111:58	110:25	108:52	107:20	105:47	104:14	102:41	102:41	102:41	195	
196	17:21	113:11	111:38	110:06	108:33	107:00	105:28	103:55	102:22	102:22	102:22	196	

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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
197	18:47	112:51	111:19	109:46	108:13	106:41	105:08	103:35	102:02	100:29	98:56	18:47	197	
198	20:14	112:32	110:59	109:26	107:53	106:21	104:48	103:15	101:42	100:09	98:36	20:14	198	
199	21:40	112:11	110:39	109:06	107:33	106:01	104:28	102:55	101:22	99:49	98:16	21:40	199	
200	23:07	111:51	110:19	108:45	107:13	105:40	104:07	102:34	101:01	99:28	97:55	23:07	200	
201	24:33	111:30	109:57	108:25	106:52	105:19	103:46	102:13	100:40	99:07	97:34	24:33	201	
202	26:00	111:09	109:36	108:04	106:31	104:58	103:25	101:52	100:19	98:46	97:13	26:00	202	
203	27:26	110:47	109:15	107:42	106:09	104:36	103:03	101:30	100:07	98:34	97:01	27:26	203	
204	28:52	110:26	108:53	107:20	105:47	104:15	102:42	101:09	99:36	98:03	96:30	28:52	204	
205	30:18	110:03	108:30	106:58	105:25	103:52	102:19	100:46	99:13	97:40	96:07	30:18	205	
206	31:45	109:40	108:08	106:35	105:02	103:29	101:56	100:23	98:50	97:17	95:44	31:45	206	
207	33:11	109:17	107:44	106:12	104:39	103:06	101:33	100:01	98:28	96:55	95:22	33:11	207	
208	34:37	108:53	107:20	105:48	104:15	102:42	101:09	99:37	98:04	96:31	94:58	34:37	208	
209	36:03	108:28	106:56	105:23	103:50	102:18	100:45	99:12	97:39	96:06	94:33	36:03	209	
210	37:29	108:03	106:30	104:58	103:25	101:52	100:20	98:47	97:14	95:41	94:08	37:29	210	
211	38:54	107:37	106:05	104:32	102:59	101:26	99:54	98:21	96:48	95:15	93:42	38:54	211	
212	40:20	107:10	105:38	104:05	102:32	101:00	99:27	97:54	96:21	94:48	93:15	40:20	212	
213	41:46	106:43	105:10	103:37	101:56	100:23	98:50	97:17	95:44	94:11	92:38	41:46	213	
214	43:11	106:14	104:41	103:09	101:36	100:03	98:30	96:57	95:24	93:51	92:18	43:11	214	
215	44:37	105:44	104:12	102:39	101:06	99:33	98:00	96:27	94:54	93:21	91:48	44:37	215	
216	46:02	105:13	103:41	102:08	100:35	99:02	97:29	95:56	94:23	92:50	91:17	46:02	216	
217	47:27	104:41	103:08	101:36	100:03	98:30	96:57	95:24	93:51	92:18	90:45	47:27	217	
218	48:52	104:07	102:35	101:02	99:29	97:57	96:24	94:51	93:18	91:45	90:12	48:52	218	
219	50:17	103:32	101:50	100:27	98:54	97:21	95:49	94:16	92:43	91:10	89:37	50:17	219	
220	51:42	102:55	101:22	99:50	98:17	96:44	95:11	93:39	92:06	90:33	89:00	51:42	220	
221	53:06	102:16	100:43	99:10	97:38	96:05	94:32	93:00	91:27	89:54	88:21	53:06	221	
222	54:31	101:35	100:02	98:29	96:56	95:24	93:51	92:18	90:45	89:12	87:39	54:31	222	
223	55:55	100:51	99:18	97:45	96:13	94:40	93:07	91:35	89:62	87:89	86:16	55:55	223	
224	57:19	100:04	98:31	96:59	95:26	93:53	92:21	90:48	89:15	87:42	86:09	57:19	224	
225	58:42	99:14	97:42	96:09	94:36	93:03	91:31	89:58	88:25	86:52	85:19	58:42	225	
226	60:06	98:21	96:48	95:15	93:43	92:10	90:37	89:04	87:31	85:58	84:25	60:06	226	
227	61:29	97:23	95:50	94:18	92:45	91:12	89:40	88:07	86:34	84:61	82:88	61:29	227	
228	62:51	96:21	94:48	93:15	91:43	90:10	88:37	87:05	85:32	83:59	82:26	62:51	228	
229	64:14	95:13	93:40	92:07	90:35	89:02	87:29	85:57	84:24	82:51	81:18	64:14	229	
230	65:35	93:58	92:26	90:53	89:20	87:48	86:15	84:42	83:09	81:36	79:63	65:35	230	
231	66:57	92:37	91:04	89:31	87:59	86:26	84:53	83:20	81:47	80:14	78:41	66:57	231	
232	68:17	91:06	89:33	88:00	86:28	84:55	83:22	81:50	80:17	78:44	77:11	68:17	232	
233	69:37	89:25	87:52	86:19	84:47	83:14	81:41	80:08	78:35	76:62	74:89	69:37	233	
234	70:55	87:31	85:58	84:25	82:53	81:20	79:47	78:14	76:41	74:68	72:95	70:55	234	
235	72:13	85:22	83:49	82:17	80:44	79:11	77:38	75:65	73:92	72:19	70:46	72:13	235	
236	73:29	82:55	81:22	79:49	78:17	76:44	75:11	73:38	71:65	69:92	68:19	73:29	236	
237	74:43	80:05	78:32	77:00	75:27	73:54	72:22	70:49	69:16	67:43	65:70	74:43	237	
238	75:54	76:48	75:15	73:43	72:10	70:37	69:04	67:32	65:59	64:26	62:53	75:54	238	
239	77:03	72:57	71:24	69:52	68:19	66:46	65:14	63:41	62:08	60:35	58:62	77:03	239	
240	78:08	68:25	66:52	65:19	63:46	62:14	60:41	59:08	57:35	55:62	53:89	78:08	240	
241	79:08	63:02	61:29	59:56	58:23	56:50	55:18	53:45	52:12	50:39	48:66	79:08	241	
242	80:02	56:39	54:56	53:24	51:51	50:18	48:45	47:13	45:40	43:67	41:94	80:02	242	
243	81:10	49:10	47:37	46:04	44:32	43:00	41:27	39:54	38:22	36:49	35:16	81:10	243	
244	81:22	40:32	39:00	37:27	35:54	34:22	32:49	31:16	29:44	28:11	26:38	81:22	244	
245	81:44	30:56	29:24	27:51	26:18	24:45	23:13	21:40	20:07	18:34	17:01	81:44	245	

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246	81:51	20:46	226	19:13	17:40	16:08	14:35	13:02	11:30	10:00	8:28	231	81:51	246
247	81:44	10:35	226	9:03	7:30	5:57	4:25	2:52	1:19	0:00	0:00	230	81:44	247
248	81:22	1:00	226	0:33	0:00	0:00	0:00	0:00	0:00	0:00	0:00	231	81:22	248

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ROW	LATITUDE	PATH	L	U	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
001	80:47												80:47	001
002	80:02		6:16										80:02	002
003	79:08		1:13										79:08	003
004	78:08		7:35										78:08	004
005	77:03		12:58										77:03	005
006	75:54		17:31										75:54	006
007	74:43		21:22										74:43	007
008	73:29		24:39										73:29	008
009	72:13		27:29										72:13	009
010	70:55		29:56										70:55	010
011	69:37		32:05										69:37	011
012	68:17		33:59										68:17	012
013	66:57		35:40										66:57	013
014	65:35		37:10										65:35	014
015	64:14		38:32										64:14	015
016	62:51		39:47										62:51	016
017	61:29		40:55										61:29	017
018	60:06		41:57										60:06	018
019	58:42		42:55										58:42	019
020	57:19		43:48										57:19	020
021	55:55		44:38										55:55	021
022	54:31		45:25										54:31	022
023	53:06		46:10										53:06	023
024	51:42		46:50										51:42	024
025	50:17		47:29										50:17	025
026	48:52		48:06										48:52	026
027	47:27		48:41										47:27	027
028	46:02		49:15										46:02	028
029	44:37		49:47										44:37	029
030	43:11		50:18										43:11	030
031	41:46		50:48										41:46	031
032	40:20		51:17										40:20	032
033	38:54		51:44										38:54	033
034	37:29		52:11										37:29	034
035	36:03		52:37										36:03	035
036	34:37		53:02										34:37	036
037	33:11		53:27										33:11	037
038	31:45		53:51										31:45	038
039	30:18		54:14										30:18	039
040	28:52		54:37										28:52	040
041	27:26		54:59										27:26	041
042	26:00		55:21										26:00	042
043	24:33		55:43										24:33	043
044	23:07		56:04										23:07	044
045	21:40		56:25										21:40	045
046	20:14		56:45										20:14	046
047	18:47		57:05										18:47	047
048	17:21		57:25										17:21	048
049	15:54		57:45										15:54	049

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050	14127	58124	59157									14127	050
051	13101	58143	60116									13101	051
052	11134	59102	60135									11134	052
053	10107	59121	60154									10107	053
054	8141	59140	61112									8141	054
055	7114	59158	61131									7114	055
056	5147	60117	61150									5147	056
057	4120	60135	62108									4120	057
058	2154	60154	62126									2154	058
059	1127	61112	62145									1127	059
060	0100	61131	63103									0100	060
061	-1127	61149	63122									-1127	061
062	-2154	62107	63140									-2154	062
063	-4120	62126	63159									-4120	063
064	-5147	62144	64117									-5147	064
065	-7114	63103	64136									-7114	065
066	-8141	63122	64154									-8141	066
067	-10107	63140	65113									-10107	067
068	-11134	63159	65132									-11134	068
069	-13101	64118	65151									-13101	069
070	-14127	64137	66110									-14127	070
071	-15154	64157	66129									-15154	071
072	-17121	65116	66149									-17121	072
073	-18147	65136	67109									-18147	073
074	-20114	65156	67128									-20114	074
075	-21140	66116	67149									-21140	075
076	-23107	66136	68109									-23107	076
077	-24133	66157	68130									-24133	077
078	-26100	67118	68151									-26100	078
079	-27126	67140	69113									-27126	079
080	-28152	68102	69134									-28152	080
081	-30118	68124	69157									-30118	081
082	-31145	68147	70120									-31145	082
083	-33111	69110	70143									-33111	083
084	-34137	69134	71107									-34137	084
085	-36103	69159	71132									-36103	085
086	-37129	70124	71157									-37129	086
087	-38154	70150	72123									-38154	087
088	-40120	71117	72150									-40120	088
089	-41146	71145	73117									-41146	089
090	-43111	72113	73146									-43111	090
091	-44137	72143	74116									-44137	091
092	-46102	73114	74147									-46102	092
093	-47127	73146	75119									-47127	093
094	-48152	74120	75153									-48152	094
095	-50117	74155	76128									-50117	095
096	-51142	75132	77105									-51142	096
097	-53106	76111	77144									-53106	097
098	-54131	76153	78125									-54131	098

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PATH/ROW TO LATITUDE/LONGITUDE
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ROW	LATITUDE	PATH: 232	L	O	N	G	I	T	U	D	E	(DEGREES MINUTES)	LATITUDE	ROW
099	-55:55	-77:37	-	-	-	-	-	-	-	-	-	-	-55:55	099
100	-57:19	-78:23	-	-	-	-	-	-	-	-	-	-	-57:19	100
101	-58:42	-79:13	-	-	-	-	-	-	-	-	-	-	-58:42	101
102	-60:06	-80:06	-	-	-	-	-	-	-	-	-	-	-60:06	102
103	-61:29	-81:04	-	-	-	-	-	-	-	-	-	-	-61:29	103
104	-62:51	-82:07	-	-	-	-	-	-	-	-	-	-	-62:51	104
105	-64:14	-83:14	-	-	-	-	-	-	-	-	-	-	-64:14	105
106	-65:35	-84:29	-	-	-	-	-	-	-	-	-	-	-65:35	106
107	-66:57	-85:51	-	-	-	-	-	-	-	-	-	-	-66:57	107
108	-68:17	-87:12	-	-	-	-	-	-	-	-	-	-	-68:17	108
109	-69:37	-89:03	-	-	-	-	-	-	-	-	-	-	-69:37	109
110	-70:55	-90:56	-	-	-	-	-	-	-	-	-	-	-70:55	110
111	-72:13	-93:05	-	-	-	-	-	-	-	-	-	-	-72:13	111
112	-73:29	-95:33	-	-	-	-	-	-	-	-	-	-	-73:29	112
113	-74:43	-98:22	-	-	-	-	-	-	-	-	-	-	-74:43	113
114	-75:54	-101:39	-	-	-	-	-	-	-	-	-	-	-75:54	114
115	-77:03	-105:30	-	-	-	-	-	-	-	-	-	-	-77:03	115
116	-78:08	-110:03	-	-	-	-	-	-	-	-	-	-	-78:08	116
117	-79:08	-115:26	-	-	-	-	-	-	-	-	-	-	-79:08	117
118	-80:02	-121:48	-	-	-	-	-	-	-	-	-	-	-80:02	118
119	-80:47	-129:18	-	-	-	-	-	-	-	-	-	-	-80:47	119
120	-81:22	-137:55	-	-	-	-	-	-	-	-	-	-	-81:22	120
121	-81:44	-147:31	-	-	-	-	-	-	-	-	-	-	-81:44	121
122	-81:51	-157:41	-	-	-	-	-	-	-	-	-	-	-81:51	122
123	-81:44	-167:52	-	-	-	-	-	-	-	-	-	-	-81:44	123
124	-81:22	-177:28	-	-	-	-	-	-	-	-	-	-	-81:22	124
125	-80:47	173:55	-	-	-	-	-	-	-	-	-	-	-80:47	125
126	-80:02	166:25	-	-	-	-	-	-	-	-	-	-	-80:02	126
127	-79:08	160:03	-	-	-	-	-	-	-	-	-	-	-79:08	127
128	-78:08	154:40	-	-	-	-	-	-	-	-	-	-	-78:08	128
129	-77:03	150:07	-	-	-	-	-	-	-	-	-	-	-77:03	129
130	-75:54	146:16	-	-	-	-	-	-	-	-	-	-	-75:54	130
131	-74:43	142:59	-	-	-	-	-	-	-	-	-	-	-74:43	131
132	-73:29	140:10	-	-	-	-	-	-	-	-	-	-	-73:29	132
133	-72:13	137:42	-	-	-	-	-	-	-	-	-	-	-72:13	133
134	-70:55	135:34	-	-	-	-	-	-	-	-	-	-	-70:55	134
135	-69:37	133:40	-	-	-	-	-	-	-	-	-	-	-69:37	135
136	-68:17	131:59	-	-	-	-	-	-	-	-	-	-	-68:17	136
137	-66:57	130:28	-	-	-	-	-	-	-	-	-	-	-66:57	137
138	-65:35	129:06	-	-	-	-	-	-	-	-	-	-	-65:35	138
139	-64:14	127:52	-	-	-	-	-	-	-	-	-	-	-64:14	139
140	-62:51	126:44	-	-	-	-	-	-	-	-	-	-	-62:51	140
141	-61:29	125:41	-	-	-	-	-	-	-	-	-	-	-61:29	141
142	-60:06	124:44	-	-	-	-	-	-	-	-	-	-	-60:06	142
143	-58:42	123:50	-	-	-	-	-	-	-	-	-	-	-58:42	143
144	-57:19	123:00	-	-	-	-	-	-	-	-	-	-	-57:19	144
145	-55:55	122:14	-	-	-	-	-	-	-	-	-	-	-55:55	145
146	-54:31	121:30	-	-	-	-	-	-	-	-	-	-	-54:31	146
147	-53:06	120:49	-	-	-	-	-	-	-	-	-	-	-53:06	147

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ROW	LATITUDE	PATH: 232	L	O	N	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
148	-51:42	120:10	118:17										-51:42	148
149	-50:17	119:32	118:00										-50:17	149
150	-48:52	118:57	117:24										-48:52	150
151	-47:27	118:23	116:51										-47:27	151
152	-46:02	117:51	116:18										-46:02	152
153	-44:37	117:20	115:48										-44:37	153
154	-43:11	116:50	115:18										-43:11	154
155	-41:46	116:22	114:49										-41:46	155
156	-40:20	115:54	114:21										-40:20	156
157	-38:54	115:27	113:52										-38:54	157
158	-37:29	115:01	113:29										-37:29	158
159	-36:03	114:36	113:03										-36:03	159
160	-34:37	114:11	112:39										-34:37	160
161	-33:11	113:48	112:15										-33:11	161
162	-31:45	113:24	111:51										-31:45	162
163	-30:18	113:01	111:29										-30:18	163
164	-28:52	112:39	111:06										-28:52	164
165	-27:26	112:17	110:44										-27:26	165
166	-26:00	111:56	110:23										-26:00	166
167	-24:33	111:34	110:02										-24:33	167
168	-23:07	111:14	109:41										-23:07	168
169	-21:40	110:53	109:20										-21:40	169
170	-20:14	110:33	109:00										-20:14	170
171	-18:47	110:13	108:40										-18:47	171
172	-17:21	109:53	108:21										-17:21	172
173	-15:54	109:34	108:01										-15:54	173
174	-14:27	109:14	107:42										-14:27	174
175	-13:01	108:55	107:23										-13:01	175
176	-11:34	108:36	107:04										-11:34	176
177	-10:07	108:18	106:45										-10:07	177
178	-8:41	107:59	106:26										-8:41	178
179	-7:14	107:40	106:07										-7:14	179
180	-5:47	107:22	105:49										-5:47	180
181	-4:20	107:03	105:30										-4:20	181
182	-2:54	106:45	105:12										-2:54	182
183	-1:27	106:26	104:53										-1:27	183
184	0:00	106:08	104:35										0:00	184
185	1:27	105:49	104:17										1:27	185
186	2:54	105:31	103:58										2:54	186
187	4:20	105:13	103:40										4:20	187
188	5:47	104:54	103:21										5:47	188
189	7:14	104:35	103:03										7:14	189
190	8:41	104:17	102:44										8:41	190
191	10:07	103:58	102:25										10:07	191
192	11:34	103:39	102:06										11:34	192
193	13:01	103:20	101:46										13:01	193
194	14:27	103:01	101:28										14:27	194
195	15:54	102:42	101:09										15:54	195
196	17:21	102:22	100:50										17:21	196

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PATH/ROW TO LATITUDE/LONGITUDE
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ROW	LATITUDE	PATH	L	O	N	G	I	T	U	D	E	(DEGREES/MINUTES)	LATITUDE	ROW
197	18147	102103	232	100130									19147	197
198	20114	101143		100117									20114	198
199	21140	101122		99150									21140	199
200	23107	101102		99129									23107	200
201	24133	100141		99108									24133	201
202	26100	100120		98147									26100	202
203	27126	99158		98126									27126	203
204	28152	99137		98104									28152	204
205	30118	99114		97142									30118	205
206	31145	98151		97119									31145	206
207	33111	98128		96155									33111	207
208	34137	98104		96131									34137	208
209	36103	97140		96107									36103	209
210	37129	97114		95142									37129	210
211	38154	96148		95116									38154	211
212	40120	96121		94149									40120	212
213	41146	95154		94121									41146	213
214	43111	95125		93152									43111	214
215	44137	94155		93123									44137	215
216	46102	94124		92152									46102	216
217	47127	93152		92119									47127	217
218	48152	93118		91146									48152	218
219	50117	92143		91110									50117	219
220	51142	92106		90133									51142	220
221	53106	91127		89154									53106	221
222	54131	90156		89113									54131	222
223	55155	90102		88129									55155	223
224	57119	89115		87143									57119	224
225	58142	88125		86153									58142	225
226	60106	87132		85159									60106	226
227	61129	86134		85102									61129	227
228	62151	85132		83159									62151	228
229	64114	84124		82151									64114	229
230	65135	83110		81137									65135	230
231	66157	81148		80115									66157	231
232	68117	80117		78144									68117	232
233	69137	78136		77103									69137	233
234	70155	76142		75109									70155	234
235	72113	74133		73100									72113	235
236	73129	72106		70133									73129	236
237	74143	69116		67144									74143	237
238	75154	65159		64126									75154	238
239	77103	62108		60135									77103	239
240	78108	57136		56103									78108	240
241	79108	52113		50140									79108	241
242	80102	45150		44117									80102	242
243	80147	38121		36149									80147	243
244	81122	29143		28111									81122	244
245	81144	20107		11135									81144	245

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ROW	LATITUDE	PATH	L	U	M	G	I	T	U	D	E	(DEGREES:MINUTES)	LATITUDE	ROW
246	81:51	9:57											81:51	246
247	81:44	- 0:13											81:44	247
248	81:22	- 9:49											81:22	248

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APPENDIX C

LANDSAT-D TABLES
FOR THE DETERMINATION
OF
OBSERVATION DATES

TABLE C.1 Landsat-D Orbit Paths

TBD

TABLE C.2 Landsat-D Orbit Calendar

TBD